TABLES OF SCATTERING FUNCTIONS

FOR

SPHERICAL COLLOIDAL PARTICLES

($\alpha = 0.2(0.2)7.0$; $m = 1.05(0.05)1.30$)

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Technical Report #2

Tables of Scattering Functions

for Spherical Colloidal Particles

(Range considered: $\alpha = 0.2(0.2)7.0$; $m = 1.05(0.05)1.30$)

by

William James Pangonis and Wilfried Heller

Introductory Text by: A. F. Stevenson

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The following tables give the numerical values of certain coefficients arising in the theory of the scattering of a plane electromagnetic wave by a sphere.[1] These coefficients are defined as follows:[2]

$$A_n = \frac{a_n}{n(n+1)} \quad , \quad B_n = \frac{b_n}{n(n+1)} ,$$

$$a_n = (-1)^n i(2n+1) \frac{S_n'(\beta)S_n(\alpha) - mS_n'(\alpha)S_n(\beta)}{S_n'(\beta)\phi_n(\alpha) - m\phi_n'(\alpha)S_n(\beta)},$$

$$b_n = (-1)^{n+1} i(2n+1) \frac{mS_n(\alpha)S_n'(\beta) - S_n(\beta)S_n'(\alpha)}{m\phi_n(\alpha)S_n'(\beta) - S_n(\beta)\phi_n'(\alpha)},$$

where

$$S_n(\alpha) = \left(\frac{\pi\alpha}{2}\right)^{1/2} J_{n+1/2}(\alpha),$$

$$\phi_n(\alpha) = \left(\frac{\pi\alpha}{2}\right)^{1/2}\left[J_{n+1/2}(\alpha) + (-1)^n i J_{-n-1/2}(\alpha) \right. ,$$

$$n = 1, 2, 3, \cdots;$$

and $J_{n+1/2}$ $J_{-n-1/2}$ are the usual Bessel functions so denoted.

The physical meanings of α, β, m are as follows:

$$\alpha = 2\pi r/\lambda \quad , \beta = m\alpha,$$

where r = radius of scattering sphere,

λ = wave-length of incident wave in surrounding medium,

m = refractive index of sphere relative to surrounding medium.

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[1] The original theory was given by G. Mie, Ann. Physik, 25, 377 (1908). Reference may also be made to: M. Born, Optik. 274 et seq: (Springer, Berlin, 1933); J. A. Stratton, Electromagnetic Theory, 563 et seq. (McGraw-Hill, New York, (1941).

[2] The notation used here is identical with that of our previous report (Technical Report #1), except that we here write $\phi_n(\alpha) = S_n(\alpha) + (-1)^n i\, G_n(\alpha)$, where $G_n(\alpha)$ is as defined in the previous report, namely $G_n(\alpha) = \left(\frac{\pi\alpha}{2}\right)^{1/2} J_{-n-1/2}(\alpha)$.

The significance of the coefficients A_n, B_n, a_n, b_n for the scattering problem is as follows: If the incident wave is of unit intensity and plane-polarized with the electric vector perpendicular to the plane of observation (i.e. the plane containing the direction of propagation of the incident wave and the direction of observation), then the intensity of the scattered wave in a direction making an angle γ with the reversed direction of the incident wave, and at a distance r' ($\gg\lambda$) from the center of the sphere is:

$$J_\perp = \frac{\lambda^2}{4\pi\, r'^2} \left| \sum_{n=1}^{\infty} \left[A_n\, \frac{P'_n(\cos\gamma)}{\sin\gamma} + B_n\, \frac{d}{d\gamma}\, P'_n(\cos\gamma) \right] \right|^2, \quad (1)$$

where $P'_n(\cos\gamma)$ is the usual associated Legendre function.

If the incident wave is of unit intensity and plane-polarized with the electric vector parallel to the plane of observation, then the intensity of the scattered wave in the direction defined by the angle γ is:

$$J_{/\!/} = \frac{\lambda^2}{4\pi r'^2} \left| \sum_{n=1}^{\infty} \left[A_n \frac{d}{d\gamma} P'_n(\cos\gamma) + B_n\, \frac{P'_n(\cos\gamma)}{\sin\gamma} \right] \right|^2 \quad (2)$$

The intensities of the wave scattered by unit volume of the scattering system, when the incident wave is of unit intensity, and for the two states of polarization, are, respectively:

$$I_\perp = NJ_\perp, \quad I_{/\!/} = NJ_{/\!/},$$

where N is the number of scattering particles per unit volume.

If the incident wave is of unit intensity and unpolarized, then the intensities in the scattered wave of the components polarized perpendicular and parallel to the plane of observation in the direction defined by the angle γ are $\frac{1}{2} J_{\perp}$, $\frac{1}{2} J_{//}$, respectively, where $J_{\perp}$, $J_{//}$ are given by (1) and (2) (or $\frac{1}{2} I_{\perp}$, $\frac{1}{2} I_{//}$ for scattering by unit volume).

The scattering cross-section of one sphere, i.e. the total outward flux of energy in the scattered wave, when the incident wave is of unit intensity and is either plane-polarized or unpolarized, is:

$$R = \frac{\lambda^2}{2\pi} \sum_{n=1}^{\infty} \frac{|a_n|^2 + |b_n|^2}{2n+1}. \tag{3}$$

The scattering coefficient, i.e. the ratio of the total outward flux of energy in the scattered wave to the flux of energy incident on the sphere in the incident wave, is:

$$K = \frac{R}{\pi r^2} = \frac{2}{\alpha^2} \sum_{n=1}^{\infty} \frac{|a_n|^2 + |b_n|^2}{2n+1}. \tag{4}$$

The turbidity is:

$$\tau = NR. \tag{5}$$

It will be seen from the defining equations that A_n, B_n, a_n, b_n are complex functions of the two parameters α, m. The quantities actually tabulated, for all values of n which are significant in the infinite series (1)-(4), are as follows:

$$R(A_n), I(A_n), R(B_n), I(B_n), \frac{|a_n|^2}{2n+1}, \frac{|b_n|^2}{2n+1},$$

where R, I denote the real and imaginary parts, for the
following ranges of α, m:

$$\alpha = 0.2(0.2)7.0,$$

$$m = 1.05(0.05)1.30.$$

With the help of these tables, the cross section,
scattering coefficient and turbidity are given immediately
from (3), (4), (5); while the intensities of the scattered
wave in any direction can be calculated without too much
labor from (1), (2), since the angular functions can be
obtained from an available tabulation.[3]

At the outset of this work, a compilation of scattering
functions was already available,[4] which covers the entire
field of common aerosols (m = 1.30). For the work proceeding in
this laboratory, smaller refractive ratios, as generally found
in liquid dispersions, were of interest. The respective
ratios appear to be adequately covered by the present functions
for α-values on compassing the entire so called "colloidal range."
While this tabulation was well on its way to completion, a

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[3] Mathematical Tables Project: Tables of Associated Legendre
Functions (New York, Columbia Press, 1945). These functions
have been retabulated recently by R. O. Gumprecht and
C. M. Sliepcevitch, Tables of functions of first and second
partial derivatives of Legendre polynomials (University of
Michigan, 1951).

[4] Tables of Scattering Functions for Spherical Particles
(National Bureau of Standards, Washington, D. C., Government
Printing Office, 1948).

second set of tables[5] appeared in print. They extended the
previous tabulations[4] to include not only the colloidal, but also
the entire microscopic and even part of the visible range at
particle sizes in aerosols. It also gives the functions for
$m = 1.20$ with the limitation to the widely spaced α-values of
1(1)6. The latter data overlap with a few of the present
tabulations. A comparison shows a generally very satisfactory
agreement.

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[5] R. O. Gumprecht and C. M. Sliepcevitch; Light scattering
functions for Spherical Particles, (Ann Arbor, University
of Michigan Press, 1952).

m = 1.05

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
			$\alpha = .20$			
1	+.0002623		-.0000009		.0000000915	
2	-.0000003					
			$\alpha = .40$			
1	+.0020559	-.0000028	-.0000332		.0000005634	.000000001
2	-.0000110				.000000001	
			$\alpha = .60$			
1	+.0066951	-.00002988	-.0002532		.000059765	.000000086
2	-.0000810		+.0000015		.000000047	
3	+.0000006					
			$\alpha = .80$			
1	+.0150544	-.0001511	-.0010082	+.0000007	.0003022	.0000014
2	-.0003285		+.0000106		.0000008	
3	+.0000041					
			$\alpha = 1.00$			
1	+.0275135	-.0005048	-.0029965	+.0000060	.0010096	.0000120
2	-.0009549	+.0000011	+.0000488		.0000066	
3	+.0000186		.0000005			
4	-.0000002					
			$\alpha = 1.20$			
1	+.0436529	-.0012715	-.0070411	+.0000330	.0025429	.0000661
2	-.0022388	+.0000060	+.0001668		.0000361	.0000002
3	+.0000637		-.0000027			
4	-.0000011					

					m = 1.05	
n	R(A$_n$)	I(A$_n$)	R(B$_n$)	I(B$_n$)	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$

$\alpha = 1.40$

n	R(A$_n$)	I(A$_n$)	R(B$_n$)	I(B$_n$)	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1	+.0625063	-.0026092	-.0142190	+.0001348	.0052185	.0002696
2	-.0045100	+.0000244	+.0004643	-.0000003	.0001464	.0000015
3	+.0001771		-.0000104		.0000006	
4	-.0000043		+.0000002			

$\alpha = 1.60$

n	R(A$_n$)	I(A$_n$)	R(B$_n$)	I(B$_n$)	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1	+.0826317	-.0045659	-.0256083	+.0004373	.0091318	.0008746
2	-.0081043	+.0000788	+.0011098	-.0000148	.0004729	.0000887
3	+.0004226	-.0000003	-.0000330		.0000037	
4	-.0000135		+.0000007			
5	+.0000003					

$\alpha = 1.80$

n	R(A$_n$)	I(A$_n$)	R(B$_n$)	I(B$_n$)	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1	+.1024368	-.0070285	-.0421009	+.0011826	.0140569	.0023652
2	-.0133052	+.0002125	+.0023561	-.0000067	.0012749	.0000400
3	+.0008957	-.0000014	-.0000897		.0000165	.0000001
4	-.0000366		+.0000023			
5	+.0000009					

$\alpha = 2.00$

n	R(A$_n$)	I(A$_n$)	R(B$_n$)	I(B$_n$)	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1	+.1205270	-.0097478	-.0641496	+.0027484	.0194957	.0054970
2	-.0202801	+.0004938	+.0045475	-.0000248	.0029630	.0001489
3	+.0017252	-.0000051	-.0002165		.0000612	.0000009
4	-.0000883		+.0000071			
5	+.0000030					

$\alpha = 2.20$

n	R(A$_n$)	I(A$_n$)	R(B$_n$)	I(B$_n$)	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1	+.1359978	-.0124333	-.0915223	+.0056052	.0248666	.0112103
2	-.0290239	+.0010121	+.0081114	-.0000790	.0060725	.0004738
3	+.0030794	-.0000163	-.0004754	+.0000004	.0001951	.0000046
4	-.0001930		+.0000190		.0000016	
5	+.0000080		-.0000006			

m = 1.05

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n \rvert^2/2n+1$	$\lvert b_n \rvert^2/2n+1$
			$\alpha = 2.40$			
1	+.1486000	-.0148687	-.1237437	+.0102788	.0297374	.0205575
2	-.0393253	+.0018599	+.0135293	-.0002197	.0111595	.0013183
3	+.0051116	-.0000448	-.0009564	+.0000016	.0005375	.0000188
4	-.0003889	+.0000003	+.0000462		.0000067	.0000001
5	+.0000194		-.0000015			
6	-.0000007					
			$\alpha = 2.60$			
1	+.1587534	-.0169943	-.1571101	+.0166404	.0339886	.0332809
2	-.0507829	+.0031062	+.0212890	-.0005442	.0186375	.0032653
3	+.0080304	-.0001106	-.0017994	+.0000056	.0013269	.0000666
4	-.0007306	+.0000012	+.0001033		.0000237	.0000005
5	+.0000396		-.0000042		.0000001	
6	-.0000018		+.0000001			
			$\alpha = 2.80$			
1	+.1674426	-.0189303	-.1909826	+.0247238	.0378605	.0494475
2	-.0628107	+.0047614	+.0317894	-.0012144	.0285686	.0072867
3	+.0119905	-.0002466	-.0031871	+.0000174	.0029589	.0002090
4	-.0012918	+.0000037	+.0002150	-.0000001	.0000742	.0000021
5	+.0000907		-.0000103		.0000007	
6	-.0000045		+.0000004			
			$\alpha = 3.00$			
1	+.1760293	-.0209501	-.2222386	+.0336830	.0419028	.0673661
2	-.0748039	+.0067697	+.0452417	-.0024634	.0406148	.0147808
3	+.0171031	-.0005019	-.0053519	+.0000491	.0060226	.0005893
4	-.0021653	+.0000104	+.0004203	-.0000004	.0002083	.0000078
5	+.0001772		-.0000235		.0000025	
6	-.0000076		+.0000007			
			$\alpha = 3.20$			
1	+.186014	-.023431	-.248792	+.042467	.046862	.084934
2	-.086217	+.009018	+.061590	-.004577	.054106	.027462
3	+.023403	-.000940	-.008570	+.000126	.011285	.001511
4	-.003463	+.000027	+.000779	-.000001	.000533	.000027
5	+.000327		-.000050		.000009	.0000002
6	-.000022		+.000002			
7	+.000001					

m = 1.05

n	R(A_n)	I(A_n)	R(B_n)	I(B_n)	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$

$\alpha = 3.40$

n	R(A_n)	I(A_n)	R(B_n)	I(B_n)	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+.198767	-.026818	-.269353	+.050037	.0536365	.100073
2	-.096653	+.011365	+.080364	-.007823	.068191	.046941
3	+.030823	-.001633	-.013143	+.000296	.019598	.003555
4	-.005302	+.000063	+.001370	-.000004	.001250	.000083
5	+.000576	-.000001	-.000101		.000027	.0000008
6	-.000044		+.000006		.0000003	
7	+.000002					

$\alpha = 3.60$

n	R(A_n)	I(A_n)	R(B_n)	I(B_n)	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+.215250	-.031552	-.283574	+.055676	.063104	.111352
2	-.105955	+.013697	+.100695	-.012350	.082182	.074103
3	+.039184	-.002644	-.019370	+.000644	.031728	.007727
4	-.007811	+.000135	+.002309	-.000012	.002713	.000237
5	+.000969	-.000003	-.000193		.000077	.000003
6	-.000083		+.000012		.000001	
7	+.000005					

$\alpha = 3.80$

n	R(A_n)	I(A_n)	R(B_n)	I(B_n)	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+.235769	-.038022	-.291976	+.059167	.076044	.118334
2	-.114224	+.015962	+.121391	-.018075	.095774	.108450
3	+.048206	-.004011	-.027500	+.001299	.048136	.015592
4	-.011102	+.000274	+.003739	-.000031	.005482	.000621
5	+.001567	-.000007	-.000353		.000201	.000008
6	-.000152		+.000025		.000003	
7	+.000011		-.000001			
8	-(.00000059)					

$\alpha = 4.00$

n	R(A_n)	I(A_n)	R(B_n)	I(B_n)	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+.259819	-.0464419	-.295783	+.0607889	.0928839	.1215777
2	-.121788	+.0181962	+.141127	-.0246281	.1091769	.1477687
3	+.057543	-.0057326	-.037671	+.0024430	.0687912	.0293155
4	-.015261	+.0005182	+.005833	-.0000756	.0103636	.0015122
5	+.002441	-.0000163	-.000620	+.0000010	.0004877	.0000314
6	-.000267	+.0000002	+.000049		.0000096	.0000003
7	+.000021		-.000003		.0000001	
8	-.000001					

$m = 1.05$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
			$\alpha = 4.20$			
1	+.286096	−.056712	−.296725	+.061194	.113423	.122387
2	−.129142	+.020519	+.158694	−.031404	.123111	.188425
3	+.066829	−.007760	−.049840	+.004290	.093116	.051479
4	−.020329	+.000920	+.008793	−.000172	.018406	.003438
5	+.003677	−.000037	−.001047	+.000003	.001106	.000090
6	−.000450		+.000091		.000027	.000001
7	+.000040		−.000004			
8	−.000003					
			$\alpha = 4.40$			
1	+.312730	−.068311	−.296825	+.061237	.136622	.122474
2	−.136856	+.023117	+.173208	−.037708	.138701	.226246
3	+.075749	−.010008	−.063729	+.007048	.120098	.084571
4	−.026285	+.001541	+.012838	−.000367	.030812	.007331
5	+.005365	−.000079	−.001708	+.000008	.002355	.000239
6	−.000732		+.000166		.000073	.000004
7	+.000072		−.000012		.000001	
8	−.000005					
			$\alpha = 4.60$			
1	+.337680	−.080319	−.298196	+.061829	.160638	.123658
2	−.145517	+.026236	+.184286	−.042969	.157418	.257816
3	+.084078	−.012381	−.078795	+.010845	.148574	.130139
4	−.033035	+.002438	+.018176	−.000735	.048768	.014708
5	+.007600	−.000158	−.002696	+.000020	.004727	.000595
6	−.001156	+.000004	+.000290		.000181	.000011
7	+.000127		−.000024		.000003	
8	−.000010		+.000002			
			$\alpha = 4.80$			
1	+.359193	−.091608	−.302792	+.063838	.183216	.127678
2	−.155368	+.030051	+.191759	−.046748	.180303	.280491
3	+.091722	−.014798	−.094271	+.015655	.177571	.187860
4	−.040415	+.003660	+.024984	−.001391	.073190	.027829
5	+.010469	−.000299	−.004130	+.000047	.008975	.001396
6	−.001768	+.000010	+.000490	−.000001	.000424	.000033
7	+.000214		−.000044		.000009	
8	−.000019		+.000004			
9	+.000001					

m = 1.05

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n \rvert^2/2n+1$	$\lvert b_n \rvert^2/2n+1$
			$\alpha = 5.00$			
1	+.376140	-.1011404	-.312135	+.0680383	.2022808	.1360766
2	-.166708	+.0348034	+.196194	-.0490816	.2088203	.2944895
3	+.098728	-.0172176	-.109277	+.0212447	.2066114	.2549367
4	-.048282	+.0052415	+.033356	-.0024863	.1048298	.0497255
5	+.014043	-.0005387	-.006149	+.0001031	.0161595	.0030944
6	-.002630	+.0000223	+.000804	-.0000021	.0009387	.0000877
7	+.000351	-.0000005	-.000080		.0000257	.0000013
8	-.000035		+.000006		.0000004	
9	+.000003					
			$\alpha = 5.20$			
1	+.3881629	-.108261	-.327025	+.075052	.216521	.150104
2	-.179319	+.040561	+.198224	-.050171	.243365	.301031
3	+.105262	-.019657	-.122967	+.027189	.235880	.326263
4	-.056127	+.007113	+.043262	-.004198	.142261	.083965
5	+.018362	-.000922	-.008911	+.000217	.027657	.006501
6	-.003809	+.000047	+.001281	-.000005	.001969	.000223
7	+.000558	-.000001	-.000139		.000065	.000004
8	-.000061		+.000012		.000001	
			$\alpha = 5.40$			
1	+.395655	-.112853	-.347299	+.085257	.225705	.170514
2	-.192725	+.047250	+.198747	-.050455	.283503	.302733
3	+.111578	-.022186	-.134663	+.032948	.266231	.395374
4	-.063947	+.009278	+.054499	-.006700	.185568	.134003
5	+.023425	-.001503	-.012584	+.000432	.045080	.012972
6	-.005380	+.000094	+.001985	-.000013	.003929	.000535
7	+.000864	-.000003	-.000235		.000156	.000012
8	-.000104		+.000022		.000003	
9	+.000010		-.000002			
			$\alpha = 5.60$			
1	+.399629	-.115338	-.371754	+.098618	.2306750	.197235
2	-.206206	+.054603	+.198794	-.050481	.3276171	.302885
3	+.117967	-.024921	-.144007	+.038030	.2990508	.456363
4	-.071443	+.01164359	+.066678	-.010107	.2328717	.202139
5	+.029177	-.002337	-.017329	+.000821	.0700961	.024625
6	-.007418	+.000178	+.002999	-.000029	.0074715	.001221
7	+.001305	-.000006	-.000387		.0003560	.000031
8	-.000171		+.000039		.0000089	
9	+.000017		-.000003		.0000001	

$m = 1.05$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$

$\alpha = 5.80$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+.401795	−.116707	−.398568	+.114671	.233413	.229341
2	−.213934	+.062164	+.199433	−.050828	.372987	.304971
3	+.124700	−.028002	−.150860	+.042045	.336019	.504542
4	−.078471	+.014150	+.079239	−.014414	.282549	.288295
5	+.035508	−.003472	−.023277	+.001434	.104145	.044511
6	−.009996	+.000323	+.004423	−.000063	.013572	.002655
7	+.001923	−.000014	−.000621	+.000001	.000772	.000081
8	−.000274		+.000068		.000023	.000001
9	+.000030		−.000006			

$\alpha = 6.00$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+.403219	−.1175632	−.424516	+.1317070	.23512655	.26344140
2	−.230222	+.0693785	+.201669	−.0520561	.41627070	.3123368
3	+.131972	−.0315650	−.155386	+.0449376	.3787804	.5380512
4	−.084977	+.0166641	+.091527	−.0194574	.33328287	.3891481
5	+.042260	−.0049373	−.030498	+.0025545	.1481137	.0766356
6	−.013172	+.0005616	+.006372	−.0001312	.0235860	.0055120
7	+.002768	−.0000286	−.000971	+.0000035	.0016019	.0001972
8	−.000428	+.0000007	+.000115		.0000559	.0000040
9	+.000051		−.000011		.0000011	

$\alpha = 6.20$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+.406192	−.119518	−.448015	+.148517	.239036	.297033
2	−.239503	+.075713	+.206309	−.054662	.454280	.327971
3	+.139847	−.035713	−.157943	+.046466	.4285561	.5575910
4	−.090993	+.019220	+.102897	−.024907	.384405	.493137
5	+.049235	−.006735	−.038964	+.004188	.202047	.125650
6	−.016985	+.000934	+.008976	−.000260	.039266	.010942
7	+.004006	−.000060	−.001523	+.000009	.003356	.0004840
8	−.000654	+.000002	+.000139		.000130	.000010
9	+.000084		−.000019		.000003	
10	−.000008		+.000001			

$\alpha = 6.40$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+.412295	−.123492	−.467144	+.163249	.246983	.326498
2	−.246563	+.080735	+.213825	−.059050	.484711	.354297
3	+.148234	−.040477	−.159035	+.047173	.485727	.566076
4	−.096625	+.021804	+.112789	−.030321	.436082	.606415
5	+.056225	−.008835	−.046515	+.006536	.265038	.196070
6	−.021433	+.001491	+.012362	−.000494	.062635	.020768
7	+.005376	−.000108	−.002217	+.000018	.006045	.001028
8	−.001069	+.000005	+.000305		.000348	.000028
9	+.000136		−.000062		.000007	.000003
10	−.000014		+.000003			

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$

$\alpha = 6.60$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1	+.422585	-.1303859	-.4811086	+.1746440	.2607719	.3492880
2	-.2515094	+.0844707	+.2228012	-.06505852	.5068244	.3903511
3	+.1568861	-.0457883	-.1592705	+.04732602	.5494591	.5679122
4	-.1020293	+.0244632	+.1209582	-.0352788	.4892637	.7055765
5	+.063037	-.011178	-.0588444	+.0097002	.3353408	.2910072
6	-.0264993	+.0022856	+.0166752	-.0009010	.0959940	.0378411
7	+.0072658	-.0001972	-.0032452	+.0000393	.0110453	.0022020
8	-.0014278	+.0000063	+.0004814	-.0000042	.0004517	.0000707
9	+.0002141	-.0000002	-.0000565		.0000195	.0000014
10	-.000025		+.000005			

$\alpha = 6.80$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1	+.4352036	-.1408172	-.4899891	+.1821878	.2816344	.3643756
2	-.2546973	+.0869086	+.2369606	-.0739411	.5214517	.4436468
3	+.1654404	-.0514606	-.1593165	+.0473560	.6175286	.5682723
4	-.1073799	+.0272765	+.1271873	-.0393972	.5455313	.7899448
5	+.0695162	-.0136907	-.0695115	+.0136888	.4107225	.4106641
6	-.0321094	+.0033676	+.0220240	-.0015751	.1414391	.06615494
7	+.00962897	-.0003466	-.0052727	+.00008083	.0194093	.0045264
8	-.00204557	+.0000177	+.0007426	-.0000023	.0012761	.0001682
9	+.0003511	-.0000006	-.0000996		.0000525	.0000042
10	-.0000041		+.000009			

$\alpha = 7.00$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1	+.4565145	-.1549416	-.494589	+.186153	.3098832	.3723059
2	-.2567149	+.0584768	+.2510564	-.0841303	.5308609	.5047921
3	+.1749611	-.0583042	-.1598546	+.0477078	.6996501	.5724931
4	-.1128336	+.0303373	+.1315716	-.0424790	.6067453	.8495809
5	+.0755912	-.0163091	-.0799949	+.0183730	.4892739	.5511893
6	-.0381202	+.0047683	+.0284376	-.0026352	.2002669	.1106765
7	+.0125157	-.0005861	-.0065394	+.0001597	.0328216	.0089430
8	-.0028738	+.0000350	+.0011219	-.0000053	.0025188	.0003838
9	+.0004990	-.0000012	-.0001520	+.00000109	.0001061	.0000985

$m = 1.10$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n \rvert^2/2n+1$	$\lvert b_n \rvert^2/2n+1$
			$\alpha = .20$			
1	+.0005215	-.0000001	-.0000021		.000000362	
2	-.0000007					
			$\alpha = .40$			
1	+.0040670	-.0000111	-.0000702		.000022272	.000000006
2	-.0000216		+.0000002		.000000003	
			$\alpha = .60$			
1	+.0133645	-.0001190	-.0005208	-.0000002	.00023816	.00000036
2	-.0001597		+.0000030		.00000018	
3	+.0000011					
			$\alpha = .80$			
1	+.0302313	-.0006095	-.0021249	+.0000030	.0012191	.0000060
2	-.0006491	+.0000005	+.0000219		.0000030	
3	+.0000080					
			$\alpha = 1.00$			
1	+.0553699	-.0020467	-.0062198	+.0000258	.0040934	.0000516
2	-.0018918	+.0000043	+.0001004		.0000257	
3	+.0000367		-.0000011			
4	-.0000004					
			$\alpha = 1.20$			
1	+.0679669	-.0051767	-.0147153	+.0001444	.0103533	.0002887
2	-.0044519	+.0000238	+.0003445		.0001427	.0000008
3	+.0001254		-.0000056		.0000002	
4	-.0000022					

$m = 1.10$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$

$\alpha = 1.40$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1	+.1257057	−.0106097	−.0299588	+.0005986	.0212193	.0011972
2	−.0090081	+.0000974	+.0009626	−.0000011	.0005843	.0000067
3	+.0003496	−.0000002	−.0000216		.0000025	
4	−.0000084		+.0000003			

$\alpha = 1.60$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1	+.1652274	−.0184264	−.0544277	+.0019776	.0368528	.0039551
2	−.0162677	+.0003177	+.0023120	−.0000064	.0019061	.0000385
3	+.0008364	−.0000012	−.0000682		.0000144	
4	−.0000265		+.0000014			
5	+.0000006					

$\alpha = 1.80$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1	+.2029897	−.0279923	−.0901881	+.0054423	.0559845	.0108847
2	−.0268390	+.0008653	+.0049384	−.0000293	.0051918	.0001756
3	+.0017782	−.0000054	−.0001859		.0000650	.0000007
4	−.0000722		+.0000049		.0000002	
5	+.0000019					

$\alpha = 2.00$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1	+.2362833	−.0381923	−.1380933	+.0128228	.0763847	.0256455
2	−.0410784	+.0020299	+.0096026	−.0001107	.0121792	.0006640
3	+.0034383	−.0000203	−.0004503	+.0000003	.0002431	.0000042
4	−.0001742		+.0000147		.0000013	
5	+.0000059		−.0000003			

$\alpha = 2.20$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1	+.2637381	−.0479016	−.1968867	+.0263041	.0958032	.0526084
2	−.0589342	+.0041890	+.0172769	−.0003583	.0251337	.0021501
3	+.0061654	−.0000652	−.0009874	+.0000017	.0007821	.0000200
4	−.0003818	+.0000003	+.0000394		.0000064	
5	+.0000158		−.0000011			

$m = 1.10$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
			$\alpha = 2.40$			
1	+.2855945	-.0565047	-.2626458	+.0474922	.1130094	.0949844
2	-.0798441	+.0077216	+.0290930	-.0010169	.0463298	.0061015
3	+.0102872	-.0001815	-.0020076	+.0000069	.0021776	.0000829
4	-.0007714	+.0000013	+.0000960		.0000264	.0000004
5	+.0000472		-.0000033		.0000001	
6	-.0000013					
			$\alpha = 2.60$			
1	+.3034099	-.0641119	-.3292643	+.0761765	.1282238	.1523529
2	-.1027697	+.0128728	+.0462190	-.0025714	.0772366	.0154282
3	+.0162517	-.0004531	-.0038012	+.0000248	.0054375	.0002973
4	-.0014539	+.0000047	+.0002152		.0000939	.0000020
5	+.0000861		-.0000088		.0000006	
6	-.0000036		+.0000003			
			$\alpha = 2.80$			
1	+.3196561	-.0715312	-.3901896	+.1094908	.1430623	.2189816
2	-.1262712	+.0195940	+.0680577	-.0055958	.1175640	.0335747
3	+.0244007	-.0010225	-.0067845	+.0000789	.0122696	.0009470
4	-.0025806	+.0000148	+.0004496	-.0000004	.0002960	.0000090
5	+.0001793	-.0000001	-.0000215		.0000026	
6	-.0000088		+.0000007			
			$\alpha = 3.00$			
1	+.3372466	-.0801010	-.4404284	+.1429392	.1602019	.2858783
2	-.1489995	+.0275519	+.0994521	-.0120430	.1653117	.0722577
3	+.0349736	-.0021044	-.0114950	+.0002266	.0252532	.0027193
4	-.0043459	+.0000420	+.0008831	-.0000017	.0008395	.0000347
5	+.0003511	-.0000003	-.0000490		.0000101	
6	-.0000200		+.0000020			
7	+.0000005					

$m = 1.10$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$

$\alpha = 3.20$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+.359001	−.091503	−.477771	+.171869	.1830061	.343738
2	−.169868	+.036199	+.135130	−.022520	.217191	.135120
3	+.048017	−.003980	−.018591	+.000593	.047756	.007118
4	−.006985	+.000108	+.001643	−.000006	.002169	.000120
5	+.000651	−.000001	−.000105		.000035	.0000008
6	−.000043		+.000005		.0000002	
7	+.000002					

$\alpha = 3.40$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+.387025	−.107574	−.505161	+.193272	.215147	.386545
2	−.188326	+.044989	+.174446	−.038276	.269933	.229657
3	+.069139	−.006953	−.028815	+.0014268	.083438	.0171221
4	−.010762	+.000258	+.002913	−.000019	.005151	.000377
5	+.001149	−.000004	−.000211		.000108	.000003
6	−.000086		+.000011		.000001	
7	+.000005		−(.00000048)			

$\alpha = 3.60$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+.422040	−.130015	−.517094	+.206756	.260029	.413511
2	−.204428	+.053596	+.214094	−.059210	.321576	.355263
3	+.080315	−.011276	−.042898	+.003172	.135313	.038064
4	−.015956	+.000566	+.004948	−.000054	.011329	.001088
5	+.001941	−.000010	−.000406	+.0000004	.000308	.000014
6	−.000165		+.000025		.000004	
7	+.000010		−.000001			

$\alpha = 3.80$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+.462860	−.159864	−.523042	+.212480	.319728	.424961
2	−.218744	+.062037	+.250464	−.083682	.372223	.502092
3	+.098267	−.017052	−.061393	+.006534	.204629	.078415
4	−.022819	+.001160	+.008083	−.000145	.023203	.002905
5	+.003184	−.000028	−.000777	+.000002	.000829	.000049
6	−.000299		+.000048		.000012	
7	+.000021		−.000003			
8	−.000001					

$m = 1.10$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$

$m = 1.10$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$

$\alpha = 4.00$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1	+.5063881	-.1967631	-.5246253	+.2140263	.3935262	.4280526
2	-.2321918	+.0706926	+.2807920	-.1088242	.4241554	.6529455
3	+.1162652	-.0241749	-.0844021	+.0124790	.2900986	.1497484
4	-.0315420	+.0022219	+.0127391	-.0003609	.0444372	.0072184
5	+.0049381	-.0000665	-.0013166	+.0000047	.0019955	.0001418
6	-.0005311	+.0000009	+.0001017		.0000383	.0000014
7	+.0000414		-.0000060		.0000004	
8	-.0000025		+.0000003			
9	+.0000001					

$\alpha = 4.20$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1	+.548428	-.238408	-.524777	+.214174	.476816	.428348
2	-.245823	+.080243	+.303838	-.131547	.481455	.789281
3	+.133479	-.032335	-.111266	+.022057	.388029	.264686
4	-.042189	+.003991	+.019419	-.000839	.079814	.016791
5	+.007482	-.000153	-.002238	+.000014	.004582	.000410
6	-.000863	+.000002	+.000157		.000101	.000003
7	+.000079		-.000013		.000001	
8	-.000005					

$\alpha = 4.40$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1	+.585086	-.280772	-.526858	+.216220	.561545	.432441
2	-.260597	+.091551	+.319800	-.149573	.549307	.897437
3	+.149316	-.041119	-.140375	+.036002	.493430	.432030
4	-.054648	+.006737	+.028674	-.001835	.134746	.036692
5	+.010990	-.000330	-.003679	+.000037	.009891	.001107
6	-.001470	+.000007	+.000350		.000293	.000017
7	+.000144		-.000026		.000004	
8	-.000011		+.000001			

$\alpha = 4.60$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1	+.613981	-.319271	-.534002	+.223368	.638542	.446735
2	-.277112	+.105508	+.329743	-.161951	.633048	.971705
3	+.163517	-.050147	-.169337	+.054192	.601769	.650302
4	-.066603	+.010710	+.041026	-.003772	.214199	.075438
5	+.015678	-.000672	-.005860	+.000094	.020148	.002811
6	-.002330	+.000018	+.000615	-.000001	.000737	.000051
7	+.000252		-.000049		.000013	.0000005
8	-.000021		+.000003			
9	+.000001					

$m = 1.10$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
			$\alpha = 4.80$			
1	+.634602	−.350275	−.548579	+.238569	.700550	.477139
2	−.295393	+.122806	+.335071	−.169001	.736834	1.014004
3	+.176155	−.059204	−.195611	+.075320	.710445	.903844
4	−.083488	+.016063	+.056830	−.007295	.321257	.145907
5	+.021747	−.001294	−.009068	+.000224	.038832	.006732
6	−.003584	+.000041	+.001046	−.000004	.001743	.000149
7	+.000427	−.000001	−.000093		.000038	.000002
8	−.000039		+.000007		.0000004	
9	+.000003					
			$\alpha = 5.00$			
1	+.647848	−.3721201	−.571449	+.2642578	.7442402	.5285156
2	−.314772	+.1436653	+.337224	−.1719399	.8619920	1.0316393
3	+.109411	−.0683040	−.217319	+.0971364	.8196482	1.1656368
4	−.098671	+.0227899	+.076065	−.0132474	.4557973	.2649485
5	+.029353	−.0023651	−.012006	+.0005092	.0709543	.0152751
6	−.005364	+.0000930	+.001727	−.0000096	.0039050	.0004047
7	+.000702	−.0000018	−.000168	+.0000001	.0001032	.0000059
8	−.000070		+.000013		.0000015	
9	+.000006		−.0000008			
			$\alpha = 5.20$			
1	+.655355	−.385295	−.603041	+.304083	.770591	.608167
2	−.333992	+.167548	+.337640	−.172514	1.005286	1.035083
3	+.198216	−.077704	−.233723	+.117187	.932453	1.406251
4	−.113460	+.030702	+.098089	−.022507	.614039	.450138
5	+.038564	−.004101	−.020027	+.001097	.123056	.032914
6	−.007822	+.000198	+.002772	−.000025	.008307	.001043
7	+.001122	−.000005	−.000294		.000263	.000018
8	−.000122		+.000025		.000005	
9	+.000010					
			$\alpha = 5.40$			
1	+.659031	−.391980	−.634589	+.350254	.783960	.700507
2	−.351587	+.193066	+.337767	−.172690	1.158395	1.036142
3	+.208614	−.087830	−.245123	+.133603	1.053955	1.603242
4	−.127292	+.039469	+.121521	−.035639	.789376	.712773
5	+.049312	−.006756	−.028623	+.002248	.202690	.067445
6	−.011128	+.000401	+.004334	−.000061	.016827	.002550
7	+.001746	−.000011	−.000501	+.000001	.000637	.000052
8	−.000207		+.000046		.000013	.0000006
9	+.000019					

m = 1.10

n	R(A$_n$)	I(A$_n$)	R(B$_n$)	I(B$_n$)	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
			α = 5.60			
1	+.660901	-.395445	-.666529	+.406143	.790889	.812285
2	-.366367	+.218207	+.339049	-.174476	1.309244	1.046853
3	+.219141	-.099192	-.252395	+.145495	1.190302	1.745946
4	-.139817	+.048715	+.144405	-.052454	.974310	1.049082
5	+.061360	-.010573	-.039837	+.004381	.317200	.131415
6	-.015463	+.000774	+.006614	-.000141	.032528	.005939
7	+.002650	-.000026	-.000829	+.000003	.001468	.000143
8	-.000342	+.000001	+.000082		.000036	.000002
9	+.000034		-.000006			
			α = 5.80			
1	+.663503	-.399693	-.693132	+.463526	.799386	.927052
2	-.377767	+.240874	+.342791	-.179800	1.445241	1.078802
3	+.229959	-.112255	-.256556	+.152929	1.347065	1.835145
4	-.150933	+.058134	+.164757	-.071768	1.162679	1.435365
5	+.074297	-.015729	-.053901	+.008103	.471879	.243077
6	-.020994	+.001431	+.009863	-.000315	.060086	.013214
7	+.003928	-.000058	-.001338	+.000007	.003226	.000374
8	-.000549		+.000143		.000092	.000006
9	+.000060		-.000012			
			α = 6.00			
1	+.667439	-.4079098	-.712216	÷.5149495	.8158196	1.029899
2	-.385712	+.2590671	+.349887	-.1904138	1.5544026	1.142483
3	+.240929	-.1272816	-.258740	+.1570456	1.5273797	1.884547
4	-.160746	+.0675656	+.181210	-.0916291	1.3513112	1.832583
5	+.087574	-.0222684	-.070699	+.0141803	.6680522	.425410
6	-.027856	+.0025275	+.014384	-.0006699	.1061552	.028137
7	+.005694	-.0001210	-.002110	+.0000166	.0067807	.000930
8	-.000862	+.0000031	+.000243	-.0000003	.0002268	.000018
9	+.000102		-.000023		.0000044	
10	-.000009		+.000002			

$m = 1.10$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$

$\alpha = 6.20$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1	+.675601	-.4243267	-.724449	+.555903	.848653	1.111805
2	-.391208	+.273303	+.360463	-.207675	1.639921	1.24605
3	+.251628	-.144178	-.259182	+.157898	1.730136	1.89477
4	-.169503	+.0770344	+.193362	-.109951	1.540688	2.19902
5	+.100598	-.030065	-.089579	+.023375	.901958	.701245
6	-.036110	+.004272	+.020357	-.001345	.179406	.056478
7	+.008326	-.000259	-.003340	+.000041	.014508	.002333
8	-.001516	+.000010	+.000457	-.000001	.000701	.000064
9	+.000168		-.000041		.000012	
10	-.000019		+.000003			

$\alpha = 6.40$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1	+.6880553	-0.4515374	-.7313791	+.5839137	.9030748	1.1678275
2	-.3945339	+.2826737	+.3735856	-.2321544	1.6960424	1.3929276
3	+.2614515	-.1623896	-.2592393	+.1580089	1.9486753	1.8961073
4	-.1774968	+.0867253	+.2016315	-.1251514	1.7345065	2.5030270
5	+.1128340	-.0338393	-.1092664	+.0361194	1.1651803	1.0835810
6	-.0457093	+.0069042	+.0286441	-.0026739	.2899759	.1123037
7	+.0112386	-.000472	-.0049057	+.0000899	.0264307	.0050358
8	-.0019849	+.0000167	+.0002169	-.0000018	.0012032	.00013140
9	+.00027281	-.00000035	-.0000686		.00003180	.0000021
10	-.000031		+.000007			

$\alpha = 6.60$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1	+.7038418	-.4909504	-.7347807	+.5996757	.9819007	1.1993515
2	-.3964991	+.2886059	+.3873350	-.2631000	1.7316352	1.5786001
3	+.2698359	-.1809507	-.2722025	+.1869038	2.1714088	1.9016353
	-.1849934	+.0969281	+.2068490	-.1364647	1.938562	2.7292949
	+.1239216	-.0482240	-.1205923	+.0452442	1.4467192	1.564240
6	-.0943538	+.0106671	+.0122982	-.0050073	.4480207	.2103069
7	+.0152608	-.0017504	-.0072602	+.0001969	.0491760	.0110282
8	-.0029208	+.0000946	+.0010415	-.0000362	.0026031	.0000331
9	+.0004305	-.0000009	-.0001203		.0000790	.0000063
10	-.000051		+.000011			
11	+.000005					

m = 1.10

n	R(A_n)	I(A_n)	R(B_n)	I(B_n)	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$

$\alpha = 6.8$

n	R(A_n)	I(A_n)	R(B_n)	I(B_n)	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+.7205009	-.5417252	-.7360552	+.6060463	1.0834504	1.2120927
2	-.3978101	+.2927384	+.3994399	-.2980965	1.7564308	1.7885791
3	+.2764408	-.1986616	-.2767913	+.1997099	2.3839389	1.9287739
4	-.1921570	+.1079501	+.2098738	-.1438952	2.1590019	2.8779038
5	+.1336735	-.0578642	-.1443316	+.0702869	1.7359247	2.1086079
6	-.0680175	+.0157480	+.0518784	-.0039542	.6614154	.3760771
7	+.0204558	-.0015714	-.0105354	+.0004150	.0879978	.0232423
8	-.0043919	+.0000817	+.0016185	-.0000111	.0058839	.0007988
9	+.0007092	-.0000024	-.0002128	+.0000002	.0000214	.0000193
10	-.000081		+.000020			
11	+.000009		-.000002			

$\alpha = 7.00$

n	R(A_n)	I(A_n)	R(B_n)	I(B_n)	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+.7472859	-.6862527	-.7362714	+.6071557	1.3725054	1.2143114
2	-.3991128	+.2970001	+.4082658	-.3334194	1.7820006	2.0005164
3	+.2812456	-.2143988	-.2632856	+.1661671	2.5727854	1.9940057
4	-.1990074	+.1200187	+.2112440	-.1480045	2.4003743	2.9600907
5	+.2991639	-.0675028	-.1570641	+.0887712	2.0250832	2.6631374
6	-.0798945	+.0222171	+.0611209	-.0139028	.9331197	.6395292
7	+.0266166	-.0026715	-.0148471	+.000825522	.1496038	.0462303
8	-.0059653	+.0001508	+.0024661	-.0000258	.0108581	.0018547
9	+.0010112	-.0000048	-.0003261	+.0000005	.0004360	.0000453

$$n = 1.15$$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\{a_n\}^2/2n+1$	$\{b_n\}^2/2n+1$

$\lambda = .20$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\{a_n\}^2/2n+1$	$\{b_n\}^2/2n+1$
1	+.0007725	-.0000004	-.0000033		.000000796	
2	-.0000010					

$\lambda = .40$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\{a_n\}^2/2n+1$	$\{b_n\}^2/2n+1$
1	+.0060874	-.0000247	-.0001082		.000049407	.000000016
2	-.0000318		+.0000003		.000000007	

$\lambda = .60$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\{a_n\}^2/2n+1$	$\{b_n\}^2/2n+1$
1	+.0199873	-.0002664	-.0008038	+.0000004	.00053275	.00000086
2	-.0002360		+.0000046		.00000040	
3	+.0000016					

$\lambda = .80$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\{a_n\}^2/2n+1$	$\{b_n\}^2/2n+1$
1	+.0454086	-.0013759	-.0032903	+.0000072	.0027718	.0000144
2	-.0009610	+.0000011	+.0000336		.0000067	
3	+.0000118		-.0000002			

$\lambda = 1.00$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\{a_n\}^2/2n+1$	$\{b_n\}^2/2n+1$
1	+.0834319	-.0046550	-.0096852	+.0000625	.0093101	.0001251
2	-.0028085	+.0000095	+.0001551		.0000568	
3	+.0000541		-.0000017			
4	-.0000007					

$\lambda = 1.20$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\{a_n\}^2/2n+1$	$\{b_n\}^2/2n+1$
1	+.1325956	-.0118141	-.0230825	+.0003553	.0236282	.0007105
2	-.0066329	+.0000528	+.0005335		.0003168	.0000021
3	+.0001853		-.0000087		.0000007	
4	-.0000032					

$\lambda = 1.40$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\{a_n\}^2/2n+1$	$\{b_n\}^2/2n+1$
1	+.1887748	-.0241459	-.0474079	+.0014998	.0482919	.0029997
2	-.0134807	+.0002181	+.0014980	-.0000027	.0013087	.0000161
3	+.0005172	-.0000005	-.0000334		.0000055	
4	-.0000123		+.0000005			

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\{a_n\}^2/2n+1$	$\{b_n\}^2/2n+1$

$\lambda = 1.60$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\{a_n\}^2/2n+1$	$\{b_n\}^2/2n+1$
1	+.2461328	−.0415373	−.0869208	+.0049051	.0830757	.0098102
2	−.0244631	−.0007183	+.0036143	−.0000157	.0043125	.0000940
3	+.0012404	−.0000026	−.0001057		.0000316	
4	−.0000391		+.0000021			
5	+.0000008					

$\lambda = 1.80$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\{a_n\}^2/2n+1$	$\{b_n\}^2/2n+1$
1	+.2989930	−.0621750	−.1450941	+.0141687	.1243501	.0283374
2	−.0405514	+.0019780	+.0077716	−.0000724	.0118680	.0004349
3	+.0026451	−.0000120	−.0002890		.0001439	.0000017
4	−.0001066		+.0000075		.0000005	
5	+.0000028					

$\lambda = 2.00$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\{a_n\}^2/2n+1$	$\{b_n\}^2/2n+1$
1	+.3436450	−.0833606	−.2226271	+.0338037	.1667211	.0676073
2	−.0622928	+.0046828	+.0152357	−.0002786	.0280967	.0016718
3	+.0051343	−.0000451	−.0007024	+.0000008	.0005423	.0000101
4	−.0002577	+.0000002	+.0000228		.0000030	
5	+.0000087		−.0000005			

$\lambda = 2.20$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\{a_n\}^2/2n+1$	$\{b_n\}^2/2n+1$
1	+.3791316	−.1028839	−.3150477	+.0693790	.2057679	.1387580
2	−.0894943	+.0097245	+.0276726	−.0009201	.0583474	.0055211
3	+.0092496	−.0001467	−.0015558	+.0000041	.0017604	.0000497
4	−.0005659	+.0000007	+.0000612		.0000142	.0000002
5	+.0000234		−.0000018			

$\lambda = 2.40$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\{a_n\}^2/2n+1$	$\{b_n\}^2/2n+1$
1	+.4069598	−.1200129	−.4119027	+.1232336	.2400258	.2464672
2	−.1210008	+.0179564	+.0470942	−.0026700	.1077382	.0160199
3	+.0155137	−.0004129	−.0031645	+.0000171	.0049545	.0002060
4	−.0011464	+.0000029	+.0001495		.0000584	.0000010
5	+.0000568		−.0000051		.0000002	
6	−.0000020		+.0000001			

$\lambda = 2.60$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\{a_n\}^2/2n+1$	$\{b_n\}^2/2n+1$
1	+.4303081	−.1357240	−.4999669	+.1909534	.2714481	.3819069
2	−.1547881	−.0296182	−.0755575	−.0069080	.1789091	.0414479
3	+.0246462	−.0010432	−.0060348	+.0000624	.0125182	.0007493
4	−.0021678	+.0000104	+.0003364		.0002089	.0000050
5	+.0001273		−.0000137		.0000010	
6	−.0000053		+.0000004			

$m = 1.15$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
			$\lambda = 2.80$			
1	+.4532055	-.1524175	-.5693612	+.2618117	.3048351	.5236234
2	-.1882662	+.0449585	+.1144647	-.0160310	.2697511	.0961860
3	+.0372045	-.0023826	-.0108639	+.0002024	.0285913	.0024288
4	-.0038633	+.0000331	+.0007058	-.0000011	.0006634	.0000221
5	+.0002658	-.0000002	-.0000335		.0000057	.0000012
6	-.0000130					
			$\lambda = 3.00$			
1	+.4797329	-.1734965	-.6172982	+.3240387	.3469929	.6480774
2	-.2192828	+.0623699	+.1635128	-.0334244	.3742194	.2005462
3	+.0535566	-.0049593	-.0185937	+.0005933	.0595112	.0071192
4	-.0065372	+.0000950	+.0013933	-.0000043	.0018997	.0000863
5	+.0005216	-.0000007	-.0000764		.0000222	.0000010
6	-.0000296		+.0000032			
7	+.0000013					
			$\lambda = 3.20$			
1	+.513075	-.202958	-.646696	+.370152	.405916	.740305
2	-.246465	+.080711	+.219296	-.062378	.484266	.374270
3	+.073688	-.009462	-.030414	+.001590	.113541	.019081
4	-.010564	+.000248	+.002608	-.000015	.004963	.000302
5	+.000969	-.000002	-.000164		.000077	.000002
6	-.000063		+.000008		.0000005	
7	+.000003					
			$\lambda = 3.40$			
1	+.554307	-.244784	-.662542	+.398520	.489568	.7970390
2	-.269551	+.098935	+.275145	-.103767	.593612	.622599
3	+.097026	-.016611	-.047690	+.003925	.199337	.047104
4	-.016378	+.000597	+.004659	-.000048	.011938	.000965
5	+.001717	-.000008	-.000332		.000241	.000009
6	-.000128		+.000018		.000002	
7	+.000007		-.0000007			
			$\lambda = 3.60$			
1	+.601267	-.301694	-.669497	+.411955	.603389	.8239101
2	-.289214	+.116723	+.323418	-.153966	.700338	.923794
3	+.122392	-.026922	-.071707	+.008952	.323069	.107424
4	-.024437	+.001331	+.007984	-.000142	.026620	.002834
5	+.002913	-.000023	-.000641	+.000001	.000694	.000034
6	-.000245		+.000039		.000008	
7	+.000015		-.000002			

n = 1.15

n	R(A_n)	I(A_n)	R(B_n)	I(B_n)	$\|a_n\|^2/2n{+}1$	$\|b_n\|^2/2n{+}1$
			λ = 3.80			
1	+.648461	-.373173	-.671373	+.415697	.746347	.831395
2	-.306685	+.134611	+.359225	-.205554	.807668	1.233322
3	+.148185	-.040449	-.103127	+.018840	.485383	.226082
4	-.035165	+.002765	+.013177	-.000386	.055300	.007724
5	+.004754	-.000062	-.001185	+.000004	.001850	.000115
6	-.000450	+.0000005	+.000081		.000027	.0000009
7	+.000032		-.000004			
8	-.000002					
			λ = 4.00			
1	+.6890654	-.4538769	-.6715099	+.4159724	.9077538	.8319447
2	-.3233447	+.1538754	+.3822585	-.2508669	.9232523	1.5052012
3	+.1727533	-.0566651	-.1410604	+.0363797	.6799810	.4365568
4	-.0488510	+.0053672	+.0232568	-.0012052	.1073432	.0241036
5	+.0074893	-.0001530	-.0021030	+.0000120	.0045910	.0003619
6	-.0007929	+.0000020	+.0001599		.0000853	.0000035
7	+.0000622		-.0000094			
8	-.0000037		.0000004			
			λ = 4.20			
1	+.718352	-.534432	-.673131	+.419251	1.063864	.838503
2	-.340320	+.176265	+.395389	-.285219	1.057590	1.711316
3	+.194840	-.074625	-.182193	+.063906	.895504	.766867
4	-.065515	+.009749	+.032446	-.002352	.194988	.047035
5	+.011420	-.000356	-.003602	-.000035	.010681	.001062
6	-.001347	+.000006	+.000304		.000246	.000013
7	+.000118		-.000020		.000003	
8	-.000008		+.000001			
			λ = 4.40			
1	+.735853	-.605017	-.679216	+.431936	1.210033	.863871
2	-.358077	+.203613	+.402138	-.307599	1.221676	1.845592
3	+.213848	-.093327	-.221025	+.101358	1.119922	1.216294
4	-.084770	+.016580	+.048505	-.005290	.331592	.105808
5	+.016893	-.000780	-.005973	+.000097	.023399	.002920
6	-.002212	+.000016	+.000556	-.000001	.000664	.000042
7	+.000214		-.000040		.000009	.0000003
8	-.000016		-.000002			
9	+.0000009					

m = 1.15

n	R(A_n)	I(A_n)	R(B_n)	I(B_n)	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
			$\lambda = 4.60$			
1	+.744482	-.659189	-.691707	+.460101	1.318377	.920201
2	-.376071	+.237274	+.405204	-.319615	1.423643	1.917689
3	+.229831	-.112092	-.252074	+.144942	1.345107	1.739303
4	-.105751	+.026401	+.070056	-.011184	.528016	.223688
5	+.024275	-.001614	-.009616	+.000252	.048425	.007570
6	-.003522	+.000040	+.000982	-.000003	.001684	.000131
7	+.000376	-.000001	-.000078		.000030	.000001
8	-.000031		+.000005		.0000003	
9	+.000002					
			$\lambda = 4.80$			
1	+.747776	-.692290	-.709364	+.506478	1.384508	1.012956
2	-.392700	+.277390	+.406284	-.324232	1.664339	1.945391
3	+.243284	-.130787	-.272733	+.188293	1.569447	2.259522
4	-.127193	+.039401	+.097262	-.022108	.788019	.442166
5	+.033906	-.003163	-.015060	+.000619	.094878	.018587
6	-.005449	+.000095	+.001680	-.000009	.004030	.000383
7	+.000639	-.000002	-.000147		.000085	.000005
8	-.000057		+.000012		.000001	
9	+.000004					
			$\lambda = 5.00$			
1	+.749229	-.7160138	-.730502	+.5800967	1.4320277	1.1601935
2	-.405830	+.3222592	+.406450	-.3249636	1.9335527	1.9497813
3	+.254856	-.1498289	-.284077	+.2255638	1.7979464	2.7067655
4	-.147691	+.0552580	+.128775	-.0404951	1.1051597	.8099021
5	+.046023	-.0058706	-.022982	+.0014462	.1761192	.0433859
6	-.008208	+.0002178	+.002794	-.0000252	.0091483	.0010597
7	+.001054	-.0000042	-.000267	+.0000003	.0002326	.0000149
8	-.000103		+.000020		.0000033	.0000001
9	+.000008		-.000001			
			$\lambda = 5.20$			
1	+.749618	-.726078	-.745790	+.670639	1.452156	1.341279
2	-.413807	+.368338	+.406566	-.325478	2.210030	1.952867
3	+.265093	-.170031	-.289176	+.253633	2.040379	3.043600
4	-.166064	+.073186	+.161141	-.067969	1.463714	1.359382
5	+.060644	-.010320	-.034182	+.003214	.309614	.096442
6	-.012057	+.000470	+.004525	-.000066	.014520	.002779
7	+.001692	-.000011	-.000469	+.000001	.000599	.000046
8	-.000182		+.000040		.000010	

m = 1.15

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
			$\lambda = 5.40$			
1	+.749779	-.731781	-.749732	+.770026	1.463563	1.540053
2	-.416318	+.411276	+.407438	-.329460	2.467656	1.976759
3	+.274235	-.192347	-.291015	+.272179	2.308160	3.266148
4	-.181625	+.092194	+.189445	-.103610	1.843873	2.072197
5	+.077444	-.017160	-.049478	+.006802	.514802	.204087
6	-.017292	+.000969	+.007151	-.000165	.040702	.006941
7	+.002646	-.000026	-.000803	+.000003	.001463	.000134
8	-.000309		+.000722		.000029	.000002
			$\lambda = 5.60$			
1	-.749314	-.739853	-.741291	+.863960	1.479706	1.727920
2	-.415528	+.447444	+.409646	-.340498	2.684664	2.042987
3	+.282086	-.217526	-.291526	+.282623	2.610315	3.391475
4	-.194233	+.111428	+.209615	-.143228	2.228552	2.864552
5	+.095673	-.026944	-.069430	+.013655	.808307	.409657
6	-.024224	+.001908	+.011045	-.000395	.080121	.016573
7	+.004038	-.000061	-.001338	+.000007	.003409	.000374
8	-.000512	+.000001	+.000130		.000080	.000005
9	+.000051				.000001	
			$\lambda = 5.80$			
1	+.749966	-.757183	-.725359	+.944067	1.514366	1.881337
2	-.412561	+.475013	+.413040	-.361814	2.850078	2.170881
3	+.288029	-.245746	-.291632	+.287162	2.948957	3.445949
4	-.204154	+.130415	+.220665	-.181044	2.608304	3.620885
5	+.114197	-.039911	-.093782	+.025802	1.197319	.774071
6	-.033144	+.003590	+.023060	-.001727	.150807	.072561
7	+.006024	-.000136	-.002176	+.000018	.007590	.000990
8	-.000827	+.000003	+.000228		.000208	.000015
9	+.000089				.000003	
			$\lambda = 6.00$			
1	+.748976	-.7891850	-.709054	+.9944230	1.578370	1.988846
2	-.409410	+.4940932	+.416132	-.3955577	2.964559	2.373346
3	+.291261	-.2762933	-.291647	+.2882429	3.315520	3.458914
4	-.211824	+.1491342	+.224653	-.2125086	2.982684	4.250171
5	+.131713	-.0558078	-.120740	+.0453733	1.674235	1.361199
6	-.044246	+.0064597	+.024715	-.0019862	.271306	.083421
7	+.008798	-.0002893	-.003460	+.0000447	.016199	.002503
8	-.001303	+.0000072	+.000391	-.0000006	.000518	.000046
9	+.000152		-.000036		.000010	

m = 1.15

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
			$\lambda = 6.20$			
1	+.744526	-.840450	-.697112	+1.026651	1.680899	2.053301
2	-.406921	+.506255	+.415925	-.441523	3.037528	2.649136
3	+.291235	-.307524	-.291648	+.288365	3.690293	3.460377
4	-.217640	-.167922	+.224745	-.235715	3.358431	4.714302
5	+.147076	-.073882	-.146642	+.073300	2.216451	2.199003
6	-.057531	+.011091	+.035795	-.004197	.465805	.176254
7	+.013011	-.000633	-.005522	+.000114	.035475	.006427
8	-.001726	+.000013	+.000375	-.000001	.001230	.000130
9	+.000252		-.000064		.000027	
10	-.000025		+.000005			
			$\lambda = 6.40$			
1	+.732536	-.910907	-.690884	+1.041855	1.821815	2.083710
2	-.405148	+.513961	+.409072	-.495859	3.083765	2.975153
3	+.288083	-.337250	-.291662	+.290034	4.046997	3.480403
4	-.221817	+.187288	+.223501	-.250960	3.745764	5.019208
5	+.159594	-.093107	-.167047	+.107793	2.793194	3.233783
6	-.072679	+.018128	+.050588	-.008502	.761373	.357068
7	+.017659	-.001169	-.008231	+.000253	.065482	.014176
8	-.003032	+.000039	+.001064	-.000005	.002805	.000345
9	+.000409	-.000001	-.000113		.000071	.000005
10	-.000044		+.000010			
			$\lambda = 6.60$			
1	+.7088691	-.9949585	-.6890161	+1.0462376	1.9899169	2.0924753
2	-.4035918	+.5202265	+.3942581	-.5514690	3.1213602	3.3088142
3	+.2827630	-.3631827	-.2916413	+.2955089	4.3581927	3.5461073
4	-.2243329	+.2076862	+.2223119	-.2596757	4.1537239	5.19351476
5	+.1692918	-.1129671	-.17292398	+.1448078	3.3890122	4.3442331
6	-.0888300	+.0280320	+.0692709	-.01636833	1.1773432	.6874701
7	+.0242863	-.0022204	-.0123452	+.0005702	.1243452	.0319316
8	-.0044891	+.00008538	+.0017004	-.0000122	.0061474	.00088177
9	+.0006490	-.0000020	-.0003243	+.0000005	.0001795	.0000448
10	-.000076		+.000018			
11	+.000007					
			$\lambda = 6.80$			
1	+.6726425	-1.0817411	-.6909224	+1.0496553	2.1634821	2.0993106
2	-.4015240	+.5279750	+.3739923	-.6003535	3.1678503	3.6021207
3	+.2764157	-.3847461	-.2912236	+.3077363	4.6169531	3.6928358
4	-.2249593	+.2292820	+.2216522	-.2636689	4.5856406	5.2733774
5	+.1758105	-.1313546	-.1832380	+.1774224	3.9406377	5.3226712
6	-.1052949	+.04134135	+.0915117	-.0299546	1.7363365	1.2580925
7	+.0327222	-.00405895	-.0181910	+.0012412	.2273015	.0695072
8	-.0065233	+.0001804	+.0026654	-.0000301	.01298620	.0021666
9	+.0010746	-.00000543	-.0003421	+.0000006	.0004923	.0000499
10	-.000121		+.000031			
11	+.000014		-.000003			

n = 1.15

n	R(A_n)	I(A_n)	R(B_n)	I(B_n)	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
			$\lambda = 7.0$			
1	+.6285130	-1.1592327	-.6875103	+1.0497159	2.3184653	2.0994317
2	-.3978455	+ .5404806	+.3530796	- .6379039	3.2428848	3.8274236
3	+.2704281	- .40092820	-.2894168	+ .3278239	4.8111384	3.9338864
4	-.2234012	+ .2517753	+.2214531	- .2647933	5.0355065	5.2958651
5	+.18017500	- .1494500	-.1821698	+ .2039558	4.4834996	6.1186730
6	-.1203802	+ .0575001	+.1147278	- .0508929	2.4150056	2.1375003
7	+.0431296	- .0071346	-.0263282	+ .0026135	.3995397	.1463681
8	-.0093126	+ .0003679	+.0041026	- .0000713	.0264872	.0051342
9	+.0015379	- .0000112	-.0005271	+ .0000013	.0010083	.0001184

$\underline{m} = 1.20$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
			$\alpha = .20$			
1.	+.0010193	−.0000007	−.0000047		.0000013852	
2.	−.0000013					
			$\alpha = .40$			
1.	+.0080514	−.0000431	−.0001479		.0000864	
2.	−.0000418					
			$\alpha = .60$			
1.	+.0265430	−.0004698	−.0011017	+.0000008	.0009396	.0000016
2.	−.0003097		+.0000062		.0000007	
3.	+.0000021					
			$\alpha = .80$			
1.	+.0606542	−.0024486	−.0045282	+.00001367	.0048972	.0000273
2.	−.0012637	+.0000023	+.0000461		.0000138	
3.	+.0000154					
			$\alpha = 1.00$			
1.	+.1122570	−.0084487	−.0134095	+.0001199	.0166885	.0002398
2.	−.0037031	+.0000165	+.0002129		.0000987	.0000003
3.	+.0000708		−.0000024		.0000001	
			$\alpha = 1.20$			
1.	+.1771886	−.0212311	−.0322122	+.0006921	.0424621	.0013841
2.	−.0087766	+.0000924	+.0007347	−.0000006	.0005547	.0000039
3.	+.0002431	−.0000001	−.0000119		.0000012	
4.	−.0000042					

m = 1.20

n	R(A_n)	I(A_n)	R(B_n)	I(B_n)	$\lvert a_n \rvert^2/2n{+}1$	$\lvert b_n \rvert^2/2n{+}1$

$\alpha = 1.40$

n	R(A_n)	I(A_n)	R(B_n)	I(B_n)	$\lvert a_n \rvert^2/2n{+}1$	$\lvert b_n \rvert^2/2n{+}1$
1.	+.2508865	-.0432073	-.0667864	+.0029795	.0864145	.0059591
2.	-.0179149	+.0003853	+.0020701	-.0000051	.0023119	.0000308
3.	+.0006796	-.0000008	-.0000458		.0000095	
4.	-.0000162		+.0000007			

$\alpha = 1.60$

n	R(A_n)	I(A_n)	R(B_n)	I(B_n)	$\lvert a_n \rvert^2/2n{+}1$	$\lvert b_n \rvert^2/2n{+}1$
1.	+.3237824	-.0734906	-.1236213	+.0102583	.1469811	.0205166
2.	-.0326660	+.0012825	+.0050258	-.0000303	.0076947	.0001819
3.	+.0016338	-.0000046	-.0001455		.0000549	.0000004
4.	-.0000512		+.0000030			

$\alpha = 1.80$

n	R(A_n)	I(A_n)	R(B_n)	I(B_n)	$\lvert a_n \rvert^2/2n{+}1$	$\lvert b_n \rvert^2/2n{+}1$
1.	+.3881070	-.1012267	-.2076454	+.0293174	.2164534	.0586348
2.	-.0543947	+.0035658	+.0108849	-.0001422	.0213949	.0008532
3.	+.0034947	-.0000209	-.0003992	+.0000003	.0002512	.0000033
4.	-.0001398		+.0000104		.0000008	

$\alpha = 2.00$

n	R(A_n)	I(A_n)	R(B_n)	I(B_n)	$\lvert a_n \rvert^2/2n{+}1$	$\lvert b_n \rvert^2/2n{+}1$
1.	+.4399485	-.1425913	-.3177400	+.0706317	.2851827	.1412634
2.	-.0838183	+.0085177	+.0215320	-.0005567	.0511060	.0033404
3.	+.0068094	-.0000795	-.0009744	+.0000016	.0009540	.0000195
4.	-.0003541	+.0000003	+.0000314		.0000055	
5.	+.0000114					

$\alpha = 2.20$

n	R(A_n)	I(A_n)	R(B_n)	I(B_n)	$\lvert a_n \rvert^2/2n{+}1$	$\lvert b_n \rvert^2/2n{+}1$
1.	+.4796734	-.1734468	-.4415963	+.1437882	.3468936	.2875764
2.	-.1204424	+.0177873	+.0395324	-.0018796	.1067239	.0112777
3.	+.0123250	-.0002613	-.0021693	+.0000080	.0031260	.0000968
4.	-.0007451	+.0000012	+.0000846		.0000246	.0000004
5.	+.0000306				.0000001	

m = 1.20

n	R(A_n)	I(A_n)	R(B_n)	I(B_n)	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$

$\alpha = 2.40$

1.	+.5106508	-.2006953	-.5568430	+.2475801	.4013905	.4951601
2.	-.1621684	+.0328535	+.0680369	-.0055924	.1971212	.0335541
3.	+.0207822	-.0007412	-.0044405	+.0000338	.0088944	.0004057
4.	-.0015134	+.0000051	+.0002071		.0001018	.0000017
5.	+.0000745				.0000004	

$\alpha = 2.60$

1.	+.5377353	-.2271795	-.6434404	+.3646631	.4543589	.7293261
2.	-.2055444	+.0542268	+.1102141	-.0148409	.3253608	.0890451
3.	+.0331983	-.0018955	-.0085355	+.0001249	.0227462	.0014990
4.	-.0028712	+.0000183	+.0004678	-.0000005	.0003664	.0000097
5.	+.0001673		-.0000183		.0000023	
6.	-.00000					

$\alpha = 2.80$

1.	+.5659824	-.2578983	-.6952860	+.4710468	.5157968	.9420936
2.	-.2465851	+.0807993	+.1674728	-.0351382	.4847959	.2108291
3.	+.0503774	-.0043836	-.0155156	+.0004129	.0526032	.0049557
4.	-.0051374	+.0000587	+.0009859	-.0000022	.0011732	.0000432
5.	+.0003499	-.0000003	-.0000464		.0000100	.0000002
6.	-.0000170		+.0000016			

$\alpha = 3.00$

1.	+.5995284	-.2993720	-.7230368	+.5507066	.5987439	1.101413
2.	-.2824961	+.1103872	+.2366234	-.0737082	.6623233	.4422492
3.	+.0727883	-.0092285	-.0268623	+.0012396	.1107423	.0148755
4.	-.0087354	+.0001696	+.0019573	-.0000085	.0033927	.0001703
5.	+.0006882	-.0000013	-.0001061		.0000387	.0000009
6.	-.0000388		+.0000044		.0000002	

$m = 1.20$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$

$\alpha = 3.20$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1.	+.6392792	-.3577984	-.7346135	+.5988611	.7155968	1.197722
2.	-.3121161	+.1406329	+.3071762	-.1351460	.8437974	.8108760
3.	+.1002098	-.0177553	-.0445043	+.0034154	.2130636	.0409843
4.	-.0141968	+.0004483	+.0036893	-.0000302	.0089667	.0006050
5.	+.0012827	-.0000045	-.0002282	+.0000001	.0001346	.0000042
6.	-.0000830		+.0000107		.0000009	
7.	+.0000040		-.0000004			

$\alpha = 3.40$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1.	+.683391	-.441008	-.739420	+.624468	.882016	1.248936
2.	-.335964	+.170213	+.364510	-.214816	1.021283	1.288899
3.	+.131398	-.031275	-.070653	+.008687	.375298	.104240
4.	-.022149	+.001093	+.006646	-.000098	.021856	.001963
5.	+.002280	-.000014	-.000464		.000425	.000018
6.	-.000168		+.000025		.000004	
7.	+.000009		-.000001			

$\alpha = 3.60$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1.	+.721914	-.546677	-.740682	+.632144	1.093354	1.264288
2.	-.355510	+.199357	+.399445	-.298114	1.196142	1.788686
3.	+.164070	-.050522	-.107113	+.020381	.606270	.244567
4.	-.033266	+.002473	+.011504	-.000294	.049454	.005886
5.	+.003884	-.000041	-.000901		.001234	.000066
6.	-.000323		+.000054		.000014	
7.	+.000020		-.000003			
8.	-.000001					

$\alpha = 3.80$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1.	+.745344	-.666563	-.740785	+.632791	1.333125	1.265581
2.	-.372380	+.229733	+.413992	-.369532	1.378400	2.217191
3.	+.195405	-.0751339	-.153594	+.043718	.901607	.524622
4.	-.048160	+.005215	+.019218	-.000822	.104291	.016445
5.	+.006371	-.000111	-.001675	+.000007	.003322	.000230
6.	-.000595	+.000001	+.000113		.000048	.000002
7.	+.000041		-.000006			
8.	-.000002					

m= 1.20

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$

$\mathscr{L} = 4.00$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1.	+.749227	-.784048	-.741307	+.636140	1.568097	1.272279
2.	-.387681	+.263976	+.416641	-.421222	1.58386	2.527330
3.	+.222943	-.103609	-.205117	+.084311	1.24331	1.011732
4.	-.067188	+.010266	+.031075	-.002156	.205313	.043126
5.	+.010095	-.0002781	-.002995	+.000024	.008345	.000734
6.	-.001052	+.000012	+.000224		.000150	.000006
7.	+.000082		-.000013		.000001	

$\mathscr{L} = 4.20$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1.	+.738112	-.882971	=.743559	+.651922	1.765942	1.303844
2.	-.401410	+.304948	+.415058	-.453247	1.829686	2.719480
3.	+.245332	-.133927	-.251186	+.143426	1.607125	1.721117
4.	-.090162	+.018855	+.048679	-.005329	.377098	.106580
5.	+.015499	-.000656	-.005175	+.000073	.019689	.002192
6.	-.001792	+.000010	+.000427		.000436	.000025
7.	+.000155		-.000027		.000005	
8.	-.000010		+.000001			

$\mathscr{L} = 4.40$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1.	+.721417	-.955078	-.747564	+.689600	1.910156	1.379201
2.	-.412025	+.354645	+.413279	-.469688	2.127871	2.818129
3.	+.262453	-.164436	-.280934	+.213276	1.973228	2.55931
4.	-.116064	+.032246	+.073685	-.012408	.644916	.248151
5.	+.023097	-.001461	-.008672	+.000205	.043821	.006158
6.	-.002957	+.000028	+.000786	-.000002	.001186	.000084
7.	+.000283		-.000056		.000017	
8.	-.000021		+.000003			
9.	+.000001					

$m = 1.20$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
			$\alpha = 4.60$			
1.	+.706839	+1.000756	-.749967	+.756956	2.001513	1.513912
2.	-.416649	+ .412783	+.412458	-.475740	2.476699	2.854440
3.	+.274923	- .194450	-.291434	+.280014	2.333405	3.360170
4.	-.142951	+ .051247	+.106924	-.027029	1.024948	.540588
5.	+.033443	- .003076	-.014136	+.000546	.092281	.016374
6.	-.004732	+ .000072	+.001397	-.000006	.003040	.000264
7.	+.000498		-.000110		.000052	
8.	-.000040		+.000007			
9.	+.000003					
			$\alpha = 4.80$			
1.	+.697510	-1.025644	-.742431	+.856282	2.051288	1.712564
2.	-.412462	+ .475710	+.412330	-.476623	2.854264	2.859738
3.	+.283789	- .224336	-.288724	+.332996	2.692031	3.995950
4.	-.168311	+ .075680	+.146523	-.054249	1.513599	1.084983
5.	+.047034	- .006136	-.022462	+.001381	.184084	.041439
6.	-.007365	+ .000175	+.002403	-.000019	.007366	.000787
7.	+.000850	- .000003	-.000207		.000151	.000009
8.	-.000076		+.000014		.000001	
9.	+.000005					
			$\alpha = 5.00$			
1.	+.692725	-1.037458	-.714228	+.978862	2.074915	1.957725
2.	-.398916	+ .536987	+.412212	-.477431	3.221924	2.864587
3.	+.289375	- .255182	-.281160	+.369246	3.062182	4.430953
4.	-.189811	+ .104196	+.185764	-.098048	2.083927	1.960961
5.	+.064138	- .011585	-.034831	+.003339	.347559	.100171
6.	-.011173	+ .000404	+.004041	-.000053	.016962	.002216
7.	+.001407	- .000007	-.000377		.000414	.000030
8.	-.000137		+.000028		.000006	
9.	+.000010		-.000002			

$m = 1.20$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n \rvert^2/2n+1$	$\lvert b_n \rvert^2/2n+1$

$\alpha = 5.20$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n \rvert^2/2n+1$	$\lvert b_n \rvert^2/2n+1$
1.	+.689734	-1.044562	-.661169	+1.104055	2.089124	2.208111
2.	-.378871	+ .590066	+.411314	- .483236	3.540398	2.899417
3.	+.291647	- .288257	-.274234	+ .390991	3.459086	4.691891
4.	-.206115	+ .134769	+.214225	- .156206	2.695373	3.124114
5.	+.084522	- .020646	-.052623	+ .007714	.619376	.231440
6.	-.016545	+ .000887	+.006614	- .000141	.037250	.005938
7.	+.002268	- .000019	-.000667	+ .000001	.001075	.000093
8.	-.000241		+.000054		.000018	
9.	+.000020					

$\alpha = 5.40$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n \rvert^2/2n+1$	$\lvert b_n \rvert^2/2n+1$
1.	+.684952	-1.055518	-.592842	+1.209389	2.111035	2.418777
2.	-.357244	+ .631114	+.408448	- .499014	3.786683	2.994085
3.	+.289831	- .324341	-.269957	+ .402087	3.892093	4.825046
4.	-.217095	+ .165880	+.224914	- .218787	3.317606	4.375736
5.	+.108248	- .035368	-.078446	+ .017631	1.061061	.523929
6.	-.023933	+ .001862	+.010583	- .000362	.078196	.015216
7.	+.003564	- .000047	-.001149	+ .000005	.002656	.000276
8.	-.000411		+.000102		.000051	.000003
9.	+.000038		-.000007			

$\alpha = 5.60$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n \rvert^2/2n+1$	$\lvert b_n \rvert^2/2n+1$
1.	+.674168	-1.078629	-.527089	+1.283551	2.157257	2.567102
2.	-.338378	+ .659795	+.401230	- .529031	3.958769	3.174185
3.	+.282795	- .363057	-.268192	+ .406307	4.356681	4.875689
4.	-.222997	+ .195043	+.220125	- .271585	3.900860	5.431692
5.	+.130130	- .054193	-.107854	+ .035081	1.625789	1.052438
6.	-.033821	+ .003741	+.016592	- .000892	.157115	.037462
7.	+.005472	- .000112	-.001928	+ .000014	.006262	.000777
8.	-.000682	+ .000002	+.000184		.000142	.000010
9.	+.000068		-.000014		.000002	

$m = 1.20$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$

$\alpha = 5.80$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1.	+.6519197	-1.120811	-.477606	+1.328267	2.241622	2.656533
2.	-.324389	+ .678167	+.385355	- .575136	4.069005	3.450819
3.	+.279781	- .402517	-.267884	+ .407025	4.830209	4.884296
4.	-.224994	+ .223313	+.208150	- .310432	4.466265	6.208643
5.	+.150926	- .079254	-.141504	+ .066768	2.377629	2.003028
6.	-.046630	+ .007191	+.025510	- .002117	.302059	.088911
7.	+.008153	- .000251	-.003164	+ .000037	.014029	.002094
8.	-.001105	+ .000005	+.000324		.000373	.000032
9.	+.000118		-.000027		.000006	
10.	-.000010		+.000002			

$\alpha = 6.00$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1.	+.611333	-1.184434	-.448656	+1.351050	2.368870	2.702101
2.	-.315086	+ .689305	+.355481	- .634024	4.135832	3.804145
3.	+.251298	- .439716	-.267731	+ .407381	5.276592	4.888570
4.	-.223533	+ .250647	+.196110	- .335300	5.012943	6.705994
5.	+.167261	- .108268	-.169631	+ .113757	3.248034	3.412720
6.	-.062541	+ .013200	+.038444	- .004851	.554388	.203740
7.	+.012108	- .000548	-.005086	+ .000097	.030712	.005410
8.	-.001750	+ .000013	+.000558	- .000001	.000934	.000095
9.	+.000201		-.000051		.000017	.000001
10.	-.000019		+.000004			

$\alpha = 6.20$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1.	+.543776	-1.266535	-.436447	+1.359929	2.533069	2.719859
2.	-.309376	+ .695743	+.310442	- .694582	4.174560	4.167492
3.	+.229477	- .471694	-.266373	+ .410472	5.660324	4.925664
4.	-.218752	+ .277656	+.187332	- .349636	5.553130	6.992519
5.	+.177873	- .138924	-.182842	+ .169922	4.167729	5.097668
6.	-.078231	+ .021229	+.052910	- .009325	.891617	.391660
7.	+.019055	- .001362	-.009177	+ .000315	.076300	.017629
8.	-.002712	+ .000031	+.000937	- .000004	.002242	.000268
9.	+.000334		-.000091		.000048	.000002
10.	-.000034		+.000007			

$$m = 1.20$$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$

$$\alpha = 6.40$$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1.	+.453669	−1.347230	−.434109	+1.361596	2.694461	2.723191
2.	−.302528	+ .703177	+.252222	− .748322	4.219060	4.489933
3.	+.207365	− .496775	−.262238	+ .419341	5.961299	5.032089
4.	−.210419	+ .304679	+.182524	− .356567	6.093585	7.131347
5.	+.182772	− .168998	−.178805	+ .222901	5.069952	6.687022
6.	−.101516	+ .037947	+.080557	− .022619	1.593786	.949986
7.	+.024774	− .002311	−.012439	+ .000579	.129435	.032423
8.	−.004119	+ .000072	+.001541	− .000010	.005176	.000724
9.	+.000546	− .000001	−.000160		.000127	.000011
10.	−.000059		+.000014		.000002	
11.	+.000005					

$$\alpha = 6.60$$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1.	+.342667	−1.399838	−.433351	+1.362133	2.799677	2.724266
2.	−.293449	+ .712468	+.195928	− .784393	4.274812	4.706363
3.	+.187700	− .514911	−.253120	+ .436579	6.178937	5.238953
4.	−.198152	+ .331586	+.180581	− .359222	6.631730	7.184432
5.	+.182819	− .197053	−.164609	+ .264049	5.911579	7.921467
6.	−.121331	+ .058688	+.108969	− .044866	2.464914	1.884382
7.	+.034407	− .004495	−.018985	+ .001352	.251729	.075735
8.	−.006142	+ .000160	+.002486	− .000026	.011513	.001884
9.	+.000870	− .000004	−.000275		.000322	.000032
10.	−.000100		+.000025		.000005	
11.	+.000010		−.000002			

$$\alpha = 6.80$$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1.	+.243168	−1.459485	−.425754	+1.367441	2.918970	2.734882
2.	−.277890	+ .727131	+.150863	− .805062	6.327061	5.559148
3.	+.171952	− .527255	−.316384	+ .463262	7.146742	7.193011
4.	−.181966	+ .357337	+.180262	− .359650	7.146742	7.193011
5.	+.179078	− .222605	−.148296	+ .291126	6.678146	8.733778
6.	−.138034	+ .084777	+.136204	− .081279	3.560624	3.413735
7.	+.046744	− .008422	−.028521	+ .003072	.471649	.172039
8.	−.009000	+ .000343	+.003938	− .000066	.024739	.004730
9.	+.001637	− .000010	−.000491	+ .000001	.000894	.000103
10.	−.000161		+.000074			
11.	+.000019		−.000014			

m = 1.20

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
			$\mathscr{L} = 7.00$			
1.	+.160708	-1.482579	-.402748	+1.382688	2.965159	2.765376
2.	-.251987	+ .748500	+.121259	- .815298	4.491003	4.891791
3.	+.160154	- .535429	-.206913	+ .497230	6.425149	5.966763
4.	-.162560	+ .380560	+.180079	- .359894	7.611208	7.197879
5.	+.172345	- .245848	-.135117	+ .307246	7.375452	9.217389
6.	-.149384	+ .114320	+.152822	- .130341	4.801443	5.474315
7.	+.061875	- .015150	-.042093	+ .006787	.848402	.380055
8.	-.012972	+ .000714	-.006139	- .000160	.051471	.011499
9.	+.002081	- .000021	-.000761	+ .000003	.001846	.000247

m = 1.25

n	R(A_n)	I(A_n)	R(B_n)	I(B_n)	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
			$\alpha = .20$			
1	+.0012592	-.0000011	-.0000058		.000002114	
2	-.0000016					
			$\alpha = .40$			
1	+.0099753	-.0000663	-.0001893		.000132690	.000000036
2	-.0000512		+.0000005		.000000019	
			$\alpha = .60$			
1	+.0330145	-.0007272	-.0014150	+.0000014	.0014544	.0000027
2	-.0003809	+.0000001	+.0000081		.0000010	
3	+.0000026					
			$\alpha = .80$			
1	+.0756228	-.0038228	-.0058424	+.0000228	.0076445	.0000455
2	-.0015567	+.0000029	+.0000591		.0000174	
3	+.0000189		-.0000004			
			$\alpha = 1.00$			
1	+.1396914	-.0131240	-.0174714	+.0002035	.0262479	.0004071
2	-.0045739	+.0000251	+.0002739		.0001507	.0000005
3	+.0000869		-.0000031			
4	-.0000010					
			$\alpha = 1.20$			
1	+.2213999	-.0334234	-.0421830	+.0011872	.0668468	.0023744
2	-.0108783	+.0001420	+.0009482	-.0000011	.0008522	.0000065
3	+.0002987	-.0000002	-.0000153		.0000018	
4	-.0000052					
			$\alpha = 1.40$			
1	+.3112456	-.0676319	-.0883522	+.0052223	.1352639	.0104445
2	-.0223002	+.0005972	+.0026842	-.0000086	.0035831	.0000518
3	+.0008366	-.0000012	-.0000590		.0000144	.0000001
4	-.0000199		+.0000009			

m = 1.25

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
			$\alpha = 1.60$			
1	+.3967915	−.1135595	−.1651305	+.0184045	.2271190	.0368091
2	−.0408540	+.0020077	+.0065563	−.0000520	.0120462	.0003095
3	+.0020160	−.0000070	−.0001880		.0000836	.0000009
4	−.0000629		+.0000038			
5	+.0000013					
			$\alpha = 1.80$			
1	+.4685821	−.1643970	−.2784907	+.0536216	.3287941	.10724313
2	−.0683237	+.0056399	+.0143124	−.0002459	.0338396	.0014753
3	+.0043254	−.0000322	−.0005173	+.0000004	.0003859	.0000055
4	−.0001713		+.0000134		.0000013	
5	+.0000045		−.0000002			
			$\alpha = 2.00$			
1	+.5235444	−.2129701	−.4217113	+.1297907	.4259401	.2595814
2	−.1055482	+.0135901	+.0285958	−.0009824	.0815408	.0058945
3	+.0084603	−.0001227	−.0012679	+.0000028	.0014727	.0000331
4	−.0004168	+.0000004	+.0000405		.0000077	
5	+.0000140		−.0000010			
			$\alpha = 2.20$			
1	+.5642045	−.2558611	−.5666600	−.2586789	.5117222	.5173577
2	−.1514976	+.0285177	+.0531240	−.0034005	.1711065	.0204028
3	+.0153844	−.0004060	−.0028385	+.0000138	.0048723	.0001657
4	−.0009190	+.0000019	+.0001095		.0000375	.0000005
5	+.0000376		−.0000031		.0000001	
			$\alpha = 2.40$			
1	+.5959611	−.2946646	−.6754159	+.4239427	.5893292	.8478853
2	−.2034987	+.0526092	+.0925478	−.0104061	.3156550	.0624486
3	+.0260770	−.0011681	−.0058512	+.0000587	.0140169	.0007044
4	−.0018718	+.0000078	+.0002691	−.0000001	.0001557	.0000032
5	+.0000916		−.0000091		.0000007	
6	−.0000032		+.0000002			

m = 1.25

n	R(A_n)	I(A_n)	R(B_n)	I(B_n)	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
$\alpha = 2.60$						
1	+.6248196	-.3351501	-.7315734	+.5847719	.6703002	1.1695439
2	-.2536837	+.0861282	+.1511788	-.0283935	.5167693	.1703607
3	+.0418952	-.0030246	-.0113471	+.0002208	.0362954	.0026497
4	-.0035628	+.0000282	+.0006103	-.0000008	.0005641	.0000166
5	+.0002060	-.0000001	-.0000244		.0000035	.0000004
6	-.0000086					
$\alpha = 2.80$						
1	+.6557414	-.3859901	-.7488309	+.7081393	.7719802	1.4162786
2	-.2990850	+.1265645	+.2287601	-.0684140	.7593871	.4104839
3	+.0638968	-.0070851	-.0208550	+.0007465	.0850217	.0089586
4	-.0064010	+.0000901	+.0012927	-.0000037	.0018214	.0000743
5	+.0004315	-.0000005	-.0000602		.0000152	.0000003
6	-.0000209		+.0000021			
$\alpha = 3.00$						
1	+.6905873	-.4574438	-.7491521	+.7356477	.9148876	1.5712955
2	-.3358698	+.1700848	+.3137740	-.1425188	1.0205088	.8551130
3	+.0925956	-.0150885	-.0365835	+.0023034	.1810620	.0276411
4	-.0109378	+.0002660	+.0025824	-.0000148	.0053203	.0002964
5	+.0008508	-.0000020	-.0001382		.0000592	.0000016
6	-.0000477		+.0000064		.0000003	
7	+.0000021					
$\alpha = 3.20$						
1	+.725195	-.558709	-.746326	+.825096	1.117418	1.650191
2	-.363717	+.213390	+.381999	-.250269	1.280342	1.501613
3	+.127322	-.0292575	-.061487	+.006555	.351090	.078658
4	-.017380	+.000711	+.004905	-.000053	.014232	.001069
5	+.001590	-.000007	-.000298		.000207	.000007
6	-.000102		+.000014		.000001	
7	+.000005		-.000005			
$\alpha = 3.40$						
1	+.747755	-.692011	-.744669	+.839263	1.384021	1.678527
2	-.384211	+.255444	+.413928	-.368969	1.532661	2.213813
3	+.165665	-.051616	-.098840	+.017258	.619390	.207097
4	-.028078	+.001752	+.008921	-.000176	.035177	.003539
5	+.002837	-.000022	-.000610	+.000001	.000658	.000030
6	-.000207		+.000032		.000006	.000000
7	+.000011		-.000001			

m = 1.25

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$

$\alpha = 3.60$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+.743924	-.845278	-.744437	+.841181	1.690556	1.682363
2	-.399319	+.297691	+.413292	-.469588	1.786144	2.817530
3	+.203629	-.082849	-.150292	+.041703	.994191	.500435
4	-.042457	+.004042	+.015625	-.000543	.080840	.010864
5	+.004853	-.000064	-.001190	+.000005	.001927	.000140
6	-.000399		+.000071		.000022	.0000006
7	+.000025		-.000003			
8	-.000001					

$\alpha = 3.80$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+.709457	-.993249	-.744158	+.843427	1.986499	1.686853
2	-.410167	+.343357	+.378329	-.538918	2.060141	3.233505
3	+.236861	-.121472	-.211040	+.090342	1.457669	1.084101
4	-.061830	+.008662	+.026476	-.001563	.173241	.031264
5	+.008002	-.000175	-.002227	+.000014	.005242	.000406
6	-.000737	+.000002	+.000148		.000074	.000003
7	+.000051		-.000008		.0000005	
8	-.000003		+.0000003			

$\alpha = 4.00$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+.6567014	-1.112275	-.7421071	+.8585223	2.2245502	1.7170446
2	-.4161650	+.3962259	+.3834973	-.5795806	2.3773553	3.4774835
3	+.2623689	-.1642618	-.2647557	+.1692990	1.9711411	2.0315881
4	-.0865338	+.0173057	+.0435101	-.0042470	.3461152	.0849409
5	+.0127593	-.0004445	-.0040151	+.0000439	.0133361	.0013191
6	-.0013070	+.0000055	+.0002946	-.0000003	.0002318	.0000118
7	+.0001011		-.0000171		.0000021	
8	-.0000060		+.0000008			
9	+.0000002					

$\alpha = 4.20$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+.604723	-1.193634	-.735074	+.398882	2.387267	1.797765
2	-.398138	+.440721	+.374322	-.599667	2.644327	3.598002
3	+.279364	-.207850	-.290631	+.267107	2.494196	3.205280
4	-.115852	+.032119	+.069252	-.010923	.642372	.218450
5	+.019729	-.001065	-.007008	+.000134	.031939	.004020
6	-.002234	+.000016	+.005648	-.000001	.000679	.000043
7	+.000192	-.0000001	-.000363		.000008	
8	-.000013		+.000019			
9	+.000007					

m = 1.25

n	R(A$_n$)	I(A$_n$)	R(B$_n$)	I(B$_n$)	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
			$\alpha = 4.40$			
1	+.566072	-1.241999	-.715543	+.974719	2.483998	1.949439
2	-.400884	+.530259	+.370659	-.606990	3.181554	3.641942
3	+.288708	-.250225	-.284121	+.357580	3.002694	4.290962
4	-.147528	+.055116	+.105883	-.026471	1.102320	.529412
5	+.029635	-.002411	-.011889	+.000386	.072330	.011576
6	-.003706	+.000044	+.001044	-.000004	.001864	.000148
7	+.000351	-.000001	-.000007		.000026	.000001
8	-.000026					
9	+.000002					
			$\alpha = 4.60$			
1	+.543242	-1.267096	-.669677	+1.087687	2.534192	2.175375
2	-.372057	+.604242	+.370080	-.608114	3.625455	3.648686
3	+.291666	-.291179	-.260455	+.422940	3.494143	5.075276
4	-.177699	+.086985	+.152144	-.059238	1.739705	1.184758
5	+.043254	-.005176	-.019670	+.001058	.155266	.031749
6	-.005962	+.000115	+.001870	-.000011	.004826	.000474
7	+.000606	-.000001	-.000145	+.000001	.000080	.000004
8	-.000005		+.000009		.000001	
9	+.000003					
			$\alpha = 4.80$			
1	+.531976	-1.278679	-.583247	+1.221512	2.557357	2.443023
2	-.329878	+.671209	+.369658	-.608926	4.027254	3.653557
3	+.288895	-.331782	-.236265	+.462688	3.981384	5.552260
4	-.202142	+.126190	+.197902	-.117949	2.523806	2.358982
5	+.061242	-.010531	-.031811	+.002781	.315937	.083429
6	-.009340	+.000282	+.003252	-.000034	.011848	.001435
7	+.001059	-.000004	-.000274		.000234	.000016
8	-.000937		+.000019		.000003	
9	+.000005		-.000001			
			$\alpha = 5.00$			
1	+.524969	-1.285638	-.458899	+1.343222	2.571276	2.686443
2	-.281993	+.723409	+.366327	-.615201	4.340456	3.691205
3	+.279988	-.373374	-.219243	+.484025	4.480488	5.808304
4	-.217976	+.169217	+.223603	-.199962	3.384334	3.999231
5	+.083756	-.020250	-.050269	+.007026	.607504	.210790
6	-.014277	+.000660	+.005514	-.000098	.027715	.004126
7	+.001760	-.000012	-.000501	+.000001	.000648	.000053
8	-.000170		+.000037		.000009	
9	+.000014		-.000002			

$m = 1.25$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$

$\alpha = 5.20$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
1	+.513747	-1.296410	-.324490	+1.426170	2.592821	2.852341
2	-.237688	+.758888	+.356355	-.632588	4.553331	3.795531
3	+.263639	-.416421	-.210166	+.493903	4.997057	5.926838
4	-.224634	+.212177	+.217202	-.283723	4.243540	5.674458
5	+.109860	-.036562	-.077169	+.017032	1.096860	.510964
6	-.021324	+.001476	+.009140	-.000270	.061997	.011345
7	+.002849	-.000030	-.000892	+.000003	.001697	.000166
8	-.000299		+.000072		.000027	.000002
9	+.000025		-.000005			

$\alpha = 5.40$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
1	+.488891	-1.318758	-.212797	+1.469178	2.637515	2.938357
2	-.202979	+.780549	+.334254	-.665435	4.683296	3.992608
3	+.238497	-.459562	-.206881	+.497263	5.514741	5.967158
4	-.223321	+.252432	+.189062	-.346985	5.048650	6.939707
5	+.136944	-.061442	-.113139	+.039074	1.843262	1.172222
6	-.031140	+.003165	+.014856	-.000715	.132937	.036089
7	+.004502	-.000076	-.001547	+.000009	.004240	.000484
8	-.000511	+.000001	+.000134		.000080	.000006
9	+.000046		-.000009			

$\alpha = 5.60$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
1	+.439526	-1.357714	-.139114	+1.486985	2.715429	2.973970
2	-.179130	+.792863	+.292332	-.713572	4.757178	4.281432
3	+.204648	-.499486	-.206452	+.497694	5.993831	5.972326
4	-.215680	+.289088	+.157886	-.385303	5.781757	7.706059
5	+.160810	-.095292	-.152837	+.082081	2.858762	2.462440
6	-.044416	+.006511	+.023727	-.001830	.273449	.076843
7	+.006960	-.000181	-.002622	+.000026	.010135	.001081
8	-.000852	+.000003	+.000245		.000221	.000018
9	+.000084		-.000019		.000003	
10	-.000008					

$\alpha = 5.80$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
1	+.354205	-1.411089	-.100956	+1.493174	2.822179	2.986348
2	-.162345	+.800405	+.221169	-.769789	4.802430	4.618734
3	+.164841	-.532285	-.205877	+.498268	6.387417	5.979220
4	-.202804	+.322445	+.134139	-.405642	6.448902	8.112851
5	+.177078	-.135850	-.180251	+.149858	4.075506	4.495744
6	-.061683	+.012814	+.037257	-.004551	.538596	.191160
7	+.010541	-.000416	-.004348	+.000071	.023266	.003954
8	-.001386	+.000008	+.000434	-.000001	.000586	.000057
9	+.000147		-.000036		.000009	
10	-.000013		+.000002			

$m = 1.25$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
			$\alpha = 6.00$			
1	+.227266	−1.464738	−.087555	+1.494872	2.929476	2.989744
2	−.153020	+.804218	+.133536	−.811356	4.825307	4.868133
3	+.124052	−.555637	−.202078	+.501985	6.667646	6.023820
4	−.184976	+.353097	+.119738	−.415494	7.061936	8.309874
5	+.183275	−.178699	−.177856	+.227811	5.360958	6.834342
6	−.082872	+.024058	+.057326	−.011009	1.010429	.462375
7	+.015666	−.000919	−.007081	+.000187	.051483	.010489
8	−.002205	+.000021	+.000750	−.000002	.001482	.000172
9	+.000250		−.000067		.000027	.000002
?	−.000023		+.000005			
			$\alpha = 6.20$			
1	+.069775	−1.496747	−.085958	+1.495058	2.993494	2.990116
2	−.141498	+.808572	+.038856	−.831517	4.851429	4.989106
3	+.087329	−.569953	−.191498	+.511662	6.839433	6.139944
4	−.161992	+.381152	+.112850	−.419653	7.623046	8.393060
5	+.179783	−.219238	−.148715	+.290548	6.577153	8.716442
6	−.106624	+.042590	+.085389	−.025689	1.788789	1.078921
7	+.023758	−.002126	−.011719	+.000514	.119080	.028767
8	−.003436	+.000050	+.001270	−.000007	.003600	.000492
9	+.000419	−.000001	−.000121		.000075	.000006
10	−.000042		+.000010			
			$\alpha = 6.40$			
1	+.088004	−1.494819	−.083064	+1.495386	2.989638	2.990772
2	−.123631	+.814569	+.039172	−.831488	4.887416	4.988928
3	+.057711	−.577567	−.169567	+.528978	6.930802	6.347730
4	−.133849	+.405858	+.110707	−.420880	8.117157	8.417598
5	+.168852	−.254749	−.112485	+.328103	7.642464	9.843086
6	−.129660	+.070267	+.119472	−.056387	2.951202	2.368260
7	+.032752	−.004067	−.017938	+.001207	.227728	.067577
8	−.005254	+.000117	+.002108	−.000019	.008423	.001356
9	+.000684	−.000002	−.000214		.000199	.000020
10	−.000073		+.000018			
11	+.000007		−.000001			

m = 1.25

n	R(A$_n$)	I(A$_n$)	R(B$_n$)	I(B$_n$)	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$

$\alpha = 6.60$

n	R(A$_n$)	I(A$_n$)	R(B$_n$)	I(B$_n$)	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
1	+.215631	−1.468334	−.065707	+1.497116	2.936667	2.994232
2	−.093498	+.822708	+.091524	−.823157	4.936245	4.938943
3	+.035673	−.581144	−.130959	+.552280	6.973722	6.627358
4	−.098517	+.427285	+.108654	−.422026	8.545709	8.440529
5	+.152904	−.284484	−.083168	+.346717	8.534511	10.401515
6	−.147120	+.106730	+.148331	−.110614	4.482650	4.645770
7	+.045973	−.008138	−.028001	+.002960	.455712	.165746
8	−.007898	+.000264	+.003438	−.000050	.019043	.003604
9	+.001093	−.000006	−.000369	+.000001	.000458	.000058
10	−.000125		+.000034		.000006	
11	+.000013		−.000003			

$\alpha = 6.80$

n	R(A$_n$)	I(A$_n$)	R(B$_n$)	I(B$_n$)	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
1	+.301068	−1.436919	−.020711	+1.499714	2.873838	2.999427
2	−.045711	+.830818	+.120485	−.815533	4.984910	4.893199
3	+.019732	−.582665	−.072656	+.574139	6.991981	6.889668
4	−.067232	+.439720	+.109647	−.421475	8.794410	8.429504
5	+.133539	−.308945	−.064142	+.355080	9.268354	10.652406
6	.154628	+.148325	+.152347	−.181994	6.229652	7.643748
7	+.062914	−.015697	−.043104	+.007126	.879019	.399047
8	−.011684	+.000580	+.005518	−.000129	.041729	.009292
9	+.001831	−.000016	−.000665	+.000002	.001430	.000188
10	−.000222		+.000067		.000019	.000001
11	+.000031		−.000006			

$\alpha = 7.00$

n	R(A$_n$)	I(A$_n$)	R(B$_n$)	I(B$_n$)	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
1	+.349027	−1.413838	−.063157	+1.497336	2.827675	2.994672
2	−.021699	+.827644	+.132793	−.811606	4.965866	4.869636
3	+.007244	−.583243	−.000114	+.583333	6.998920	7.000000
4	−.033954	+.447423	+.105216	−.423883	8.948467	8.477665
5	+.111455	−.328898	−.053797	+.358596	9.866929	10.757882
6	−.150847	+.189351	+.125468	−.245366	7.952739	10.305366
7	+.082990	−.028812	−.064737	+.016685	1.613487	.934365
8	−.017026	+.001234	+.008742	−.000324	.088868	.023339
9	+.002643	−.000033	−.003601	+.000068	.002979	.006160
10	−.000342		+.000321		.000089	.000006
11	+.000036		−.000008			
12	−.000003					

$m = 1.30$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$

$\alpha = .20$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
1	+.0014927	-.0000015	-.0000072		.000002971	
2	-.0000019					

$\alpha = .40$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
1	+.0118556	-.0000937	-.00023267		.00018742	.000000072
2	-.0000605		+.0000006		.00000026	

$\alpha = .60$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
1	+.0394123	-.0010356	-.0017445	+.00000203	.0020712	.00000406
2	-.0004493	+.0000002	+.0000099		.00000145	
3	+.0000030					

$\alpha = .80$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
1	+.0905675	-.0054884	-.0072361	+.0000349	.0109768	.0000698
2	-.0018400	+.0000041	+.0000728		.0000243	
3	+.0000222		-.0000005			

$\alpha = 1.00$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
1	+.1675355	-.0189515	-.0217118	+.0003144	.0379031	.0006287
2	-.0054199	+.0000352	+.0003381	-.0000001	.0002115	.0000008
3	+.0001024		-.0000038			
4	-.0000012					

$\alpha = 1.20$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
1	+.2648983	-.0483385	-.0530872	+.0018812	.0966769	.0037624
2	-.0129346	+.0002008	+.0011750	-.0000017	.0012049	.0000099
3	+.0003522	-.0000002	-.0000188		.0000025	
4	-.0000061		+.0000002			

$m = 1.30$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\frac{|a_n|^2}{2n+1}$	$\frac{|b_n|^2}{2n+1}$
			$\alpha = 1.40$			
1	+.3691218	-.0971225	-.1124070	+.0084714	.1942449	.0169428
2	-.0266274	+.0008517	+.0033424	-.0000134	.0051102	.0000804
3	+.0009883	-.0000016	-.0000730		.0000201	.0000001
4	-.0000234		+.0000011			
			$\alpha = 1.60$			
1	+.4640277	-.1607817	-.2121019	+.0306164	.3215633	.0612328
2	-.0490077	+.0028921	+.0082177	-.0000810	.0173529	.0004863
3	+.0023864	-.0000098	-.0002326		.0001172	.0000011
4	-.0000742		+.0000048		.0000002	
5	+.0000016					
			$\alpha = 1.80$			
1	+.5392457	-.2287380	-.3577916	+.0908451	.4574760	.1816903
2	-.0822962	+.0082080	+.0180948	-.0003931	.04924830	.0023586
3	+.0051362	-.0000452	-.0006435	+.0000007	.0005427	.0000085
4	-.0002026	+.0000001	+.0000165		.0000018	
5	+.0000053		-.0000002			
			$\alpha = 2.00$			
1	+.5936778	-.2916915	-.5296883	+.2190291	.5833830	.4380582
2	-.1273756	+.0199469	+.0365541	-.0016065	.1196815	.0096393
3	+.0100844	-.0001744	-.0015849	+.0000043	.0020926	.0000517
4	-.0004924	+.0000005	+.0000502		.0000108	.0000001
5	+.0000165		-.0000012			
			$\alpha = 2.20$			
1	+.6325166	-.3469830	-.6733694	+.4197370	.6939661	.8394739
2	-.1823647	+.0420279	+.0688018	-.0057197	.2521671	.0343181
3	+.0184240	-.0005825	-.0035695	+.0000218	.0069898	.0002621
4	-.0010877	+.0000026	+.0001361		.0000526	.0000008
5	+.0000443		-.0000039		.0000002	

m = 1.30

n	R(A_n)	I(A_n)	R(B_n)	I(B_n)	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
			$\alpha = 2.40$			
1	+.6628351	-.3990732	-.7422366	+.6436669	.7981464	1.2847338
2	-.2417760	+.0773210	+.1213935	-.0180757	.4639262	.1084544
3	+.0313966	-.0016948	-.0074154	+.0000943	.0203374	.0011314
4	-.0022212	+.0000110	+.0003359	-.0000003	.0002193	.0000050
5	+.0001081		-.0000113		.0000009	
6	-.0000038		+.0000003			
			$\alpha = 2.60$			
1	+.6906894	-.4576849	-.7464638	+.8227446	.9153698	1.6454891
2	-.2976610	+.1253079	+.1993118	-.0507624	.7518476	.3045746
3	+.0507274	-.0044452	-.0145244	+.0003619	.0533425	.0043424
4	-.0042418	+.0000400	+.0007651	-.0000013	.0007998	.0000260
5	+.0002432	-.0000002	-.0000304		.0000048	.0000007
6	-.0000100		+.0000009			
			$\alpha = 2.80$			
1	+.7197673	-.5392038	-.7261395	+.9376736	1.0784076	1.8753472
2	-.3438137	+.1812877	+.2961486	-.1235675	1.0877261	.7414050
3	+.0777430	-.0105520	-.0270312	+.0012553	.1266236	.0150637
4	-.0076525	+.0001302	+.0016294	-.0000059	.0026035	.0001180
5	+.0005107	-.0000007	-.0000751		.0000213	.0000005
6	-.0000246		+.0000026			
			$\alpha = 3.00$			
1	+.7429048	-.6470801	-.7053115	+1.005021	1.294160	2.010042
2	-.3833193	+.2533344	+.3817446	-.2496871	1.520007	1.498122
3	+.1128930	-.0227351	-.0481375	+.0039998	.2728218	.0479975
4	-.0131429	+.0003842	+.0032775	-.0000239	.0076837	.0004775
5	+.0010092	-.0000028	-.0001728	+.0000000	.0000833	.0000024
6	-.0000563		+.0000070		.0000004	
7	+.0000027		-.0000003			
			$\alpha = 3.20$			
1	+.748468	-.797906	-.699087	+1.02162	1.595813	2.043241
2	-.399860	+.296159	+.416517	-.405493	1.776954	2.432956
3	+.154690	-.044401	-.082205	+.011824	.532808	.141892
4	-.021615	+.001041	+.006280	-.000088	.020812	.001753
5	+.001892	-.000009	-.000375		.000293	.000011
6	-.000121		+.000017		.000002	
7	+.000006					

$m = 1.30$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$

$\alpha = 3.40$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+.715163	-.975925	-.697131	+1.026602	1.951851	.2.053205
2	-.411496	+.351227	+.397826	- .540545	2.107364	3.243268
3	+.198846	-.078289	-.133568	+ .032381	.939472	.388574
4	-.034175	+.002610	+.011548	- .000297	.052210	.005931
5	+.003387	-.000047	-.000771	+ .000002	.000939	.000049
6	-.000245		+.000040		.000008	.000000
7	+.000013		-.000002			

$\alpha = 3.60$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+.636417	-1.146829	-.696761	+1.027532	2.293659	2.055065
2	-.416573	+ .407829	+.358465	- .629068	2.446972	3.774407
3	+.238956	- .124426	-.200917	+ .080239	1.493113	.962869
4	-.052035	+ .006100	+.020507	- .000936	.121992	.018729
5	+.005821	- .000092	-.001513	+ .000006	.002773	.000187
6	-.000474	+ .000001	+.000089		.000030	.000001
7	+.000029		-.000004			
8	-.000001					

$\alpha = 3.80$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+.533567	-1.277073	-.692188	+1.038749	2.554146	2.077498
2	-.413190	+..470379	+.324995	- .677414	2.822272	4.064487
3	+.269058	- .179073	-.265774	+ .171527	2.148882	2.058319
4	-.076208	+ .013299	+.035337	- .002792	.265982	.055944
5	+.009649	- .000254	-.002851	+ .000022	.007623	.000665
6	-.000876	+ .000003	+.000194		.000104	.000005
7	+.000060		-.000010		.0000008	
8	-.000003		+(.0000004)			

$m = 1.30$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$

$$\alpha = 4.00$$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
1	+.4390583	−1.358052	−.6761007	+1.0746350	2.716105	2.149270
2	−.3973778	+ .5419743	+.3053535	− .7001633	3.251846	4.200980
3	+.2864162	− .2365742	−.2916163	+ .2970893	2.838890	3.565072
4	−.1068154	+ .0269710	+.0591683	− .0079191	.5394208	.158382
5	+.0154858	− .0006552	−.0060739	+ .0001006	.0196560	.0030193
6	−.0015590	+ .0000078	+.0003725	− .0000004	.0003298	.0000188
7	+.0001196		−.0000214		.0000030	
8	−.0000071		+.0000010			
9	+.0000003					

$$\alpha = 4.20$$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
1	+.371823	−1.401343	−.636177	+1.147214	2.802686	2.294428
2	−.363195	+ .620873	+.297392	− .708505	3.725240	4.251028
3	+.291666	− .292307	−.265179	+ .413114	3.507686	4.957372
4	−.142142	+ .050585	+.095765	− .021397	1.011690	.427932
5	+.024132	− .001595	−.009165	+ .000229	.047845	.006876
6	−.002678	+ .0000231	+.000718	− .0000017	.000973	.000070
7	+.000227	− .0000002	−.000046		.000011	
8	−.000015		+.000002			
9	+.0000001					

$$\alpha = 4.40$$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
1	+.333117	−1.421962	−.552463	+1.257232	2.843924	2.514464
2	−.307205	+ .698156	+.295929	− .709988	4.188934	4.259926
3	+.286847	− .344471	−.215346	+ .488378	4.133655	5.860540
4	−.177513	+ .086747	+.146345	− .054096	1.734932	1.081927
5	+.003655	− .003681	−.015780	+ .000680	.110431	.020411
6	−.004773	+ .0000687	+.001337	− .000006	.002888	.000242
7	+.0004159	− .000000648	−.000093		.0000363	
8	−.0000304		+.000005			
9	+.0000018					

$$m = 1.30$$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$

$$\alpha = 4.60$$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+ .3143042	−1.430965	−.407070	+1.379916	2.8619295	2.759832
2	− .234540	+ .761053	+.295392	− .710529	4.5663195	4.263171
3	+ .273284	− .393573	−.1718620	+ .527321	4.7228818	6.327850
4	− .206217	+ .135004	+.200040	− .122001	2.700077	2.440010
5	+ .053804	− .008073	−.0266284	+ .001941	.242184	.058241
6	− .0072138	+ .000168	+.0024131	− .000019	.007065	.000790
7	+ .0007/	− .000002	−.001829	+ .000001	.000114	.0000701
8	− .0000:		+.0000145			
9	+ .000004		−.000001			

$$\alpha = 4.80$$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+.303179	−1.435990	−.213022	+1.469112	2.871980	2.938224
2	−.158895	+ .801847	+.290122	− .715733	4.811080	4.224397
3	+.250685	− .440752	−.144240	+ .545170	5.289024	5.542045
4	−.222357	÷ .190616	+.224991	− .227050	3.812311	4.541009
5	+.076656	− .016795	−.043938	+ .005343	.503850	.160292
6	−.0113797	+ .000419	+.004238	− .000058	.017595	.002438
7	+.001266	− .000006	−.0003479	+ .0000005	.000335	.000025
8	−.000111		+.0006235			
9	+.000008		−.0000012			

$$\alpha = 5.00$$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+.286338	−1.443188	−.216859	+1.467963	2.886377	2.935928
2	−.094045	+ .822581	+.273526	− .730983	4.935487	4.385900
3	+.217554	− .485934	−.130561	+ .552479	5.831208	5.629751
4	−.223959	+ .246614	+.197694	− .332434	4.932277	6.648675
5	+.104837	− .032933	−.070952	+ .014286	.987981	.428581
6	−.017539	÷ .000997	+.007279	− .000171	.041877	.007193
7	+.002113	− .0000167	−.000641	+ .0000015	.000934	.000086
8	−.000208	+ .000000	+.000047			
9	+.000016		−.000003			
10	−.00000096					

$$\alpha = 5.20$$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\|a_n\|^2/2n+1$	$\|b_n\|^2/2n+1$
1	+.249224	−1.457381	−.119806	+1.490369	2.914761	2.930738
2	−.046497	+ .830731	+.236714	− .759563	4.984385	4.557375
3	÷.162745	− .533707	−.153249	+ .539828	6.404482	6.477938
4	−.213006	+ .297478	+.141729	− .399754	5.949551	7.995082
5	+.135770	− .060136	−.110099	+ .036696	1.804075	1.100867
6	−.026451	+ .002277	÷.012257	− .000486	.095640	.020417
7	+.003438	− .000044	−.001150	+ .000005	.002472	.000277
8	−.000355	+ .000001	+.000091		.000039	.000025
9	+.000012					

m = 1.30

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$

$\alpha = 5.40$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1	+.175940	-1.479072	-.203742	+1.471796	2.958143	2.943592
2	-.015427	+.833305	+.168810	-.797606	4.999829	4.735633
3	+.118338	-.558248	-.125427	+.554987	6.698973	6.659844
4	-.192659	+.340905	+.091457	-.430574	6.818103	8.611476
5	+.163631	-.100653	-.156004	+.087032	3.019596	2.610967
6	-.039034	+.005003	+.020315	-.001339	.210142	.056243
7	+.005466	-.0001116	-.002012	+.0000151	.0062486	.000847
8	-.000610	+.0000016	+.000171		.000114	
9	+.000055		-.000012			

$\alpha = 5.60$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1	+.052704	-1.498146	-.242884	+1.459582	2.996292	2.912165
2	-.003994	+.833314	+.064718	-.828277	4.999885	4.962659
3	+.059840	-.577129	-.124338	+.555503	6.925546	6.666034
4	-.165933	+.376958	+.058556	-.442247	7.539150	8.844934
5	+.180695	-.152345	-.183037	+.174947	4.570356	5.248413
6	-.056232	+.010577	+.033223	-.003608	.444239	.151536
7	+.008521	-.000271	-.003445	+.000044	.015157	.002482
8	-.001022	+.000004	+.000313	-.0000004	.000318	.000030
9	+.000099		-.000024			

$\alpha = 5.80$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1	+.119413	-1.490433	-.254795	+1.455393	2.930865	2.910787
2	-.018153	+.832938	+.059791	-.829021	4.997626	4.974126
3	+.005130	-.583233	-.117889	+.558447	6.999453	6.701362
4	-.133261	+.406291	+.048344	-.444745	8.125826	8.894899
5	+.181682	-.207881	-.159576	+.273590	6.236437	8.207702
6	-.078564	+.021424	+.053548	-.009559	.899807	.401489
7	+.013004	-.000633	-.005778	+.000125	.035435	.007013
8	-.001668	+.000012	+.000559	-.0000013	.000949	.000095
9	+.000667	-.000000	-.000046		.0000130	

$\alpha = 6.00$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$|a_n|^2/2n+1$	$|b_n|^2/2n+1$
1	+.309146	-1.433322	-.255777	+1.455038	2.866644	2.910076
2	-.034042	+.831940	+.170846	-.796690	4.991642	4.780138
3	+.039947	-.580585	-.100495	+.565474	6.967018	6.785684
4	-.095151	+.428890	+.033369	-.447512	8.577810	8.950239
5	+.167183	-.258572	-.100278	+.336811	7.757156	10.104335
6	-.105082	+.041443	+.091405	-.026993	1.728059	1.133693
7	+.019523	-.001431	-.009586	+.000343	.080157	.019234
8	-.002668	+.000030	+.000974	-.000004	.002171	.000289
9	+.000030	-.000000	-.000085		.000038	

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$

$$\alpha = 6.20$$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
1	+.479953	−1.326321	−.265757	+1.451337	2.6520.1	2.902673
2	−.059000	+ .829135	+.246435	− .752644	4.974810	4.515866
3	+.073563	− .573904	−.065373	+ .575913	6.886847	6.910952
4	−.052490	+ .443792	+.031494	− .447785	8.875833	8.955700
5	+.142094	− .299180	−.045059	+ .361043	8.975394	10.831300
6	−.131760	+ .073580	+.123495	− .061486	3.090372	2.582426
7	+.030119	− .003431	−.016239	+ .000988	.192113	.055337
8	−.004186	+ .000074	+.001664	− .000012	.005342	.000844
9	+.000501	− .000001	−.000155		.000107	.000010

$$\alpha = 6.40$$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
1	+.572151	−1.234914	−.286113	+1.443281	2.469828	2.886563
2	−.100066	+ .821139	+.288420	− .717374	4.926835	4.304246
3	+.097184	− .566666	−.006405	+ .583263	6.799996	6.999156
4	−.007700	+ .449868	+.031342	− .447806	8.997365	8.956128
5	+.111551	− .328824	−.008815	+ .366455	9.864723	10.993639
	−.150725	+ .119644	+.153370	− .134052	5.025042	5.630202
	+.041854	− .006708	−.025423	+ .002435	.375643	.136367
	−.006447	+ .000176	+.002793	− .000033	.012686	.002378
9	+.000822	− .000003	−.000275		.000288	.000032

$$\alpha = 6.60$$

n	$R(A_n)$	$I(A_n)$	$R(B_n)$	$I(B_n)$	$\lvert a_n\rvert^2/2n+1$	$\lvert b_n\rvert^2/2n+1$
1	+.627899	−1.160174	−.229946	+1.415981	2.320348	2.831962
2	−.161469	+ .800775	+.307863	− .697435	4.804647	4.184612
3	+.087678	− .569843	−.0490311	+ .579183	6.838116	6.950191
4	−.035441	+ .447191	+.029255	− .448090	8.943824	8.961799
5	+.078613	− .348957	−.011212	+ .366324	10.468696	10.989706
6	−.153595	+ .173732	+.136972	− .226804	7.296724	9.525756
7	+.059404	− .0138954	−.040883	+ .006392	.778140	.357974
8	−.009776	+ .000405	+.004612	− .000090	.029192	.006488
9	+.001320	− .000008	−.000479	+ .000001	.000743	.000098
10	−.000149		+.000043			
11	+.000015		−.000003			

m = 1.30

n	R(A$_n$)	I(A$_n$)	R(B$_n$)	I(B$_n$)	$\lvert a_n \rvert^2 / 2n+1$	$\lvert b_n \rvert^2 / 2n+1$

α = 6.80

n	R(A$_n$)	I(A$_n$)	R(B$_n$)	I(B$_n$)	$\lvert a_n \rvert^2 / 2n+1$	$\lvert b_n \rvert^2 / 2n+1$
1	+.653485	−1.118046	−.444313	+1.354223	2.236091	2.708447
2	−.239165	+ .757857	+.314505	− .689975	4.547145	4.139851
3	+.1275026	− .553988	−.159405	+ .540053	6.647857	6.480639
4	−.073210	+ .437756	+.021317	− .448988	8.755128	8.979758
5	+.044522	− .361178	−.020610	+ .365505	10.835353	10.965135
6	−.137942	+ .224927	+.076682	− .289191	9.446945	12.146006
7	+.0816160	− .027742	−.064768	+ .016702	1.553525	.935324
8	−.014629	+ .000910	+.007536	− .000241	.065515	.017336
9	+.002226	− .000023	−.000735	+ .000004	.002112	.000322
10	−.000242		+.000074			
11	+.000027		−.000007			

α = 7.00

n	R(A$_n$)	I(A$_n$)	R(B$_n$)	I(B$_n$)	$\lvert a_n \rvert^2 / 2n+1$	$\lvert b_n \rvert^2 / 2n+1$
1	+.663001	−1.100613	−.570090	+1.23734	2.201226	2.474674
2	−.321811	+ .681334	+.132793	− .811606	4.088001	4.112676
3	+.141735	− .546579	−.221721	+ .481164	6.558953	5.773766
4	−.103501	+ .424781	+.002987	− .449980	8.495621	8.999604
5	+.009784	− .366405	−.023848	+ .365109	10.992163	10.953270
6	−.109231	+ .264397	+.017451	− .308537	11.104676	12.958543
7	+.106181	− .052305	−.094814	+ .039339	2.929091	2.202992
8	−.021597	+ .001993	+.012194	− .000632	.143466	.045472
9	+.003227	− .000049	−.001367	+ .000009	.004444	.000798
10	−.000461		+.000142		.000206	.000046
11	+.000040		−.000008			